O'BRIEN & GERE

630872

September 9, 2014

Mr. John Osolin
Remedial Project Manager
Emergency and Remedial Response Division
United States Environmental Protection Agency – Region 2
290 Broadway
New York, NY 10007-1866

Ms. Lynn Vogel
Case Manager
New Jersey Department of Environmental Protection
401 E. State Street
Mailcode 401-05F
Trenton, NJ 08625-0420

RE: Annual Groundwater Monitoring Report
Evor Phillips Leasing Company Superfund Site
Old Bridge Township, Middlesex County, New Jersey (**Program Interest #G000004877, EPA ID #NJD980654222)**

FILE: 19726 / 51308

Dear Mr. Osolin and Ms. Vogel:

On behalf of the Evor Phillips Leasing Company Superfund Site Settling Defendants (Group), O'Brien & Gere has prepared this Annual Groundwater Monitoring Report for the Evor Phillips Leasing Company (EPLC) Superfund Site (Site) in Old Bridge, New Jersey. The annual groundwater monitoring event was completed in January/February 2014, as presented in Section 6.3 of the Remedial Design Report (RDR) / Remedial Action Work Plan (RAWP) (approved by EPA via letter dated January 13, 2014). A Site Location Map is provided as **Figure 1**, and a Site Plan with well locations is provided as **Figure 2**.

The annual groundwater monitoring event was completed in conjunction with the baseline groundwater monitoring event for the in-situ chemical oxidation (ISCO) remedy selected by the EPA for Operable Unit Three (OU3) – Site Groundwater in accordance with the approved RDR/RAWP.

The following sections of this letter present the details of the groundwater sampling event, including the site preparation activities (i.e., installation/abandonment of monitoring wells), groundwater sampling activities, and groundwater sampling results.

SITE PREPARATION

In accordance with the approved RDR/RAWP, the Site groundwater interim remedial measure (IRM) system (consisting of groundwater extraction and treatment) was shut down on November 25, 2013 in advance of the OU3 remedial action (RA) implementation. The IRM shut-down allowed groundwater conditions at the Site to equilibrate to non-pumping conditions prior to the baseline groundwater monitoring event. Select IRM system extraction wells and equipment were abandoned and/or removed in preparation for the final OU3 ISCO groundwater remedy.

In order to supplement existing monitoring wells and to provide additional groundwater data for the RA implementation, four (4) new groundwater monitoring wells were installed within and proximate to the ISCO treatment areas (ISCO-MW-1 through ISCO-MW-4) as shown on **Figure 3**. In addition, five (5) other new

monitoring wells (ISCO-MW-5 through ISCO-MW-9) were installed to provide monitoring locations in lieu of six (6) previous monitoring wells (MW-25, MW-26, MW-27, MW-4SR, IW-3S, and IW-5) and an extraction well (EW-5). Those previous wells were screened through the 4 - 7 foot thick silty clay unit, which serves as a local confining layer between the perched groundwater and deeper portions of the shallow aquifer. The six previous monitoring wells and the extraction well were abandoned to prevent the potential unintended migration of groundwater constituents across the silty clay unit during the RA implementation. The five new monitoring wells (ISCO-MW-5 through ISCO-MW-9) were installed in the general vicinity of the abandoned wells as shown on **Figures 2 and 3**. They are screened either above or below the silty clay unit, in the interval where the ISCO remedy will be applied. Monitoring wells were installed November 26-27, 2013 and December 23-24, 2013 by a NJ licensed driller (Environmental Probing Investigations, Inc.), under the supervision of an O'Brien & Gere geologist. Wells were constructed with 5 feet of 2-inch diameter PVC well screen with a riser to grade. Monitoring wells were completed with either a flush-mounted or stick-up casing. Boring logs, Form As, and Form Bs for the above noted wells are included as **Attachment 1**.

GROUNDWATER SAMPLING ACTIVITIES

In January/February 2014, a total of thirty (30) monitoring wells, including the new wells described above and one extraction well (EW-3), were sampled in accordance with the approved RDR/RAWP. The wells sampled included those previously sampled as part of the 2012 annual sampling event (except for abandoned wells), the newly installed wells, and IW1-DR-1. A list of wells sampled and their corresponding screened intervals is included as **Table 1**. Wells were sampled for VOCs via USEPA Method 8260B.

Monitoring wells were sampled using low-flow purge methods in accordance with the approved RDR/RAWP and the NJDEP Field Sampling Procedures Manual (FSPM). Purge water was containerized on site in 55-gallon steel drums. Water-level measurements were also collected from the sampled wells, and water elevation data are included in **Table 2**. Groundwater elevations for the shallow aquifer are depicted in **Figure 4**.

In accordance with the approved RDR/RAWP, selected wells were also sampled for dissolved iron/chromium and total chromium/sodium via USEPA Method 6010C, total dissolved solids (TDS) via USEPA Method SM 2540C, and sulfate via USEPA Method 300.0. These samples were collected at the following wells based on proximity to the ISCO treatment areas (refer to **Figure 3**):

- ISCO treatment area wells (10): ISCO-MW-1 through ISCO-MW-3, ISCO-MW-5 through ISCO-MW-9, PZ-1S, IW1-BT-2
- ISCO downgradient wells (3): ISCO-MW-4, MW-14S (two sample intervals), MW-10S
- ISCO upgradient wells (3): MW-5I, IW1-DR-1, MW-11I

The analytical results for the January/February 2014 monitoring event are presented in **Table 3**, including results for quality assurance/control (QA/QC) samples (collected in accordance with the approved RDR/RAWP).

Groundwater data were validated in accordance with the approved RDR/RAWP. Data validation results are included as **Attachment 3**.

GROUNDWATER SAMPLING RESULTS

Groundwater Flow

Consistent with previous groundwater monitoring reports, the shallow aquifer includes the "S" wells and the "I" wells, and the deep aquifer includes the "D" wells.

The shallow aquifer groundwater elevation contours are depicted in **Figure 4**. Six wells within a localized on-site perched groundwater zone (ISCO-MW-2, ISCO-MW-3, ISCO-MW-4, ISCO-MW-7, ISCO-MW-8, and ISCO-MW-9) and two deep wells (MW-15D and MW-23D) were not considered in the evaluation of the shallow groundwater elevation contours.

Consistent with historical sampling results, shallow groundwater flow is generally toward the southwest.

Groundwater Quality

January/February 2014 groundwater monitoring data are presented in **Table 3**. Twenty-eight (28) monitoring wells in the shallow aquifer (MW-6S, MW-10S, MW-14S, MW-19S, MW-23S, MW-24, MW-28, PZ-1S, IW1-BT-2, IW1-DR-1, IW-4S, WCC-1S, MW-5I, MW-9I, MW-11I, MW-23I, WCC-1M, WCC-3M, and extraction well, EW-3, and ISCO-MW-1 through 9) were sampled and analyzed for VOCs. Two (2) monitoring wells in the deep aquifer (MW-15D and MW-23D) were also sampled and analyzed for VOCs.

An overview of groundwater data results in the shallow aquifer from the January/February 2014 event are as follows:

- Total VOC concentrations at each well are less than 110 ug/L, with the exception of ISCO-MW-2, which exhibited a total VOC concentration of 1,589 ug/L (ISCO-MW-2 is a newly installed well for the OU3 RA and is located within the Treatment Area 1 - refer to **Figure 5**)
- A maximum 1,2-dichloroethane (1,2-DCA) concentration of of 1,270 ug/L was detected at ISCO-MW-2
- A maximum trichloroethene (TCE) concentration of 54.9 ug/L was detected at ISCO-MW-3 (also a newly installed well located within the Treatment Area 1)

A summary of the January/February 2014 results is shown on **Figure 5**, along with estimated TCE and 1,2-DCA iso-concentration contours. Historical monitoring results are included as **Attachment 2**. The areal extent of the dissolved-phase chlorinated VOC plume has not changed significantly over the past several years and is consistent with the extents of the OU3 treatment areas. Comparison of the 2014 results to the historical results indicates that VOC concentrations in groundwater are generally either static or declining. VOC trend analyses were completed for selected wells spatially distributed across the treatment areas and are included as **Attachment 4**.

ISCO injections to address groundwater contaminants in Treatment Areas 1 and 2 commenced on February 27, 2014 (after the Baseline Monitoring Event reported herein) and were completed on March 31, 2014. Monitoring wells within and proximate to the treatment areas will be sampled at frequencies defined in the approved RDR/RAWP (commencing in May 2014), to evaluate groundwater quality following the ISCO injection work.

In accordance with the approved RDR/RAWP, a post-injection report will be submitted to EPA/NJDEP following the completion of the post-injection groundwater monitoring, to evaluate the need for additional injection work moving forward.

Should you have any questions regarding this submission or require additional information, please do not hesitate to contact me at (732) 638-2930.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Gary Angyal, PE
Vice President

cc: EPLC Site Group
Mr. Chris Young, *de maximis, inc.*
Mr. Jeffrey Levesque, O'Brien & Gere Engineers, Inc.

ATTACHMENTS:

Table 1 – Monitoring Well Summary
Table 2 – Groundwater Elevations Summary
Table 3 – December 2013 / January 2014 Groundwater Results
Figure 1 – Site Location Map
Figure 2 – Site Plan
Figure 3 – ISCO Monitoring Plan
Figure 4 – Groundwater Elevations – Shallow Aquifer
Figure 5 – Baseline Groundwater Monitoring Results
Attachment 1 – Monitoring Well Boring Logs, Forms A & B
Attachment 2 – Historical Groundwater Results
Attachment 3 – Data Validation Results
Attachment 4 – Concentration Trend Graphs

Tables

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Monitoring Well Summary
Table 1

Well ID	Easting (NAD83)	Northing (NAD83)	TOC Elevation (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Top of Sample Interval (ft bgs)	Bottom of Sample Interval (ft bgs)
ISCO-MW-1	584,217.85	540,637.61	42.63	24	29	24	29
ISCO-MW-2	584,319.63	540,795.20	48.92	16	21	16	21
ISCO-MW-3	584,387.22	540,912.08	51.28	22	27	22	27
ISCO-MW-4	584,325.53	540,918.26	44.67	15	20	15	20
ISCO-MW-5	584,250.24	540,698.22	47.81	25	30	25	30
ISCO-MW-6	584,302.97	540,784.57	48.78	27	32	27	32
ISCO-MW-7	584,334.67	540,870.99	46.3	18	23	18	23
ISCO-MW-8	584,360.38	540,879.45	50.19	19	24	19	24
ISCO-MW-9	584,422.18	541,020.50	48.79	20	25	20	25
IW1-BT-2	540,925.16	584,418.94	52.39	15	35	24	29
IW1-DR-1	540,926.52	584,458.57	57.46	20	35	25	30
IW-4S	540,871.99	584,354.81	50.80	31	36	31	36
PZ-1S	540,551.93	584,158.57	44.24	20	30	22	27
MW-5I	540,691.57	584,309.75	49.74	30	40	30	35
MW-6S	540,482.53	584,118.03	43.54	17	32	22	27
MW-9I	540,610.57	584,300.26	48.40	32	42	32	37
MW-10S	540,619.21	584,165.36	45.27	15	30	23	28
MW-11I	540,543.75	584,212.88	47.92	27	37	27	32
MW-14S	540,781.83	584,184.87	32.03	3.5	18.5	7	12
						12.5	17.5
MW-15D	540,495.94	584,398.81	41.88	90	100	90	95
MW-19S	540,887.95	584,582.32	56.09	19.5	35.5	28	33
MW-23S	540,625.52	583,937.55	27.89	20	30	20	25
MW-23I	540,620.38	583,935.25	27.89	50	60	55	60
MW-23D	540,630.28	583,939.84	27.95	90	100	90	95
MW-24	540,404.11	584,071.49	42.46	15	35	20	25
MW-28	541,108.40	584,474.91	49.87	15	35	23	28
WCC-1S	540,461.09	583,762.17	24.88	28	38	30	35
WCC-1M	540,452.25	583,758.98	26.42	45	55	48	53
WCC-3M	535,031.00	578,117.00	27.31	38	48	30	35
EW-3	540,428.73	584,097.72	44.38	20	65	20	25

Notes:
TOC = Top of Inner Casing
MSL = Mean Sea Level
BGS = Below Ground Surface

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Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Groundwater Elevation Summary
Table 2

Well ID	TOC Elevation (ft MSL)	Depth to Water[1] (ft)	GW Elevation (ft MSL)
ISCO-MW-1	42.63	20.81	21.82
ISCO-MW-2	48.92	22.45	26.47
ISCO-MW-3	51.28	25.00	26.28
ISCO-MW-4	44.67	19.83	24.84
ISCO-MW-5	47.81	22.31	25.50
ISCO-MW-6	48.78	23.08	25.70
ISCO-MW-7	46.3	19.70	26.60
ISCO-MW-8	50.19	22.90	27.29
ISCO-MW-9	48.79	20.32	28.47
IW-BT-2	52.39	25.95	26.44
IW1-DR-1	57.46	30.91	26.55
IW-4S	50.80	24.80	26.00
PZ-1S	44.24	18.93	25.31
MW-5I	49.74	24.00	25.74
MW-6S	43.54	18.38	25.16
MW-9I	48.40	22.79	25.61
MW-10S	45.27	19.81	25.46
MW-11I	47.92	22.58	25.34
MW-14S	32.03	6.28	25.75
MW-15D	41.88	16.10	25.78
MW-19S	56.09	29.36	26.73
MW-23S	27.89	3.13	24.76
MW-23I	27.89	3.10	24.79
MW-23D	27.95	3.16	24.79
MW-24	42.46	17.52	24.94
MW-28	49.87	23.30	26.57
WCC-1S	24.88	1.40	23.48
WCC-1M	26.42	2.86	23.56
WCC-3M	27.31	3.25	24.06
EW-3	44.38	18.08	26.30

Notes:
(1) Depth to water is measured in feet below top of inner casing
GW= Groundwater
TOC = Top of Inner Casing
MSL = Mean Sea Level
BGS = Below Ground Surface

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Groundwater Analytical Results
Table 3

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010)	EB	EB - FILTERED	EB	EB - FILTERED	TB	EB	TB	EB	EB - FILTERED	TB	TB	ISCO-MW-1		ISCO-MW-1		ISCO-MW-2		ISCO-MW-2		ISCO-MW-3		ISCO-MW-3
Lab Sample ID		JB57365-9	JB57365-9F	JB57365-19	JB57365-19F	JB57365-21	JB57510-11	JB57510-12	JB59106-2	JB59106-2F	JB59106-4	JB57131-4	JB57365-1		JB57365-1F		JB57365-7		JB57365-7F		JB57365-10		JB57365-10F
Sample Date		1/9/2014	1/9/2014	1/10/2014	1/10/2014	1/10/2014	1/13/2014	1/13/2014	2/3/2014	2/3/2014	2/3/2014	1/6/2014	1/9/2014		1/9/2014		1/10/2014		1/10/2014		1/9/2014		1/9/2014
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	GW		GW - FILTERED		GW		GW - FILTERED		GW		GW - FILTERED
Unit	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L
Volatile Organic Compounds (VOCs)																							
Acetone	6000	ND (3.3)	-	ND (3.3)	-	ND (3.3)	ND (3.3)	ND (3.3)	ND (3.3)	-	ND (3.3)	ND (3.3)	ND (3.3)		-		**102**		-		ND (3.3)		-
Benzene	1	ND (0.28)	-	ND (0.28)	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	-	ND (0.28)	ND (0.28)	**0.83**	J	-		ND (0.28)		-		ND (0.28)		-
Bromochloromethane	-	ND (0.42)	-	ND (0.42)	-	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	-	ND (0.42)	ND (0.42)	ND (0.42)		-		ND (0.42)		-		ND (0.42)		-
Bromodichloromethane	1	ND (0.21)	-	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)		-		ND (0.21)		-		ND (0.21)		-
Bromoform	4	ND (0.30)	-	ND (0.30)	-	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	-	ND (0.30)	ND (0.30)	ND (0.30)		-		ND (0.30)		-		ND (0.30)		-
Bromomethane	10	ND (0.56)	-	ND (0.56)	-	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	-	ND (0.56)	ND (0.56)	ND (0.56)		-		ND (0.56)		-		ND (0.56)		-
2-Butanone (MEK)	300	ND (3.2)	-	ND (3.2)	-	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	-	ND (3.2)	ND (3.2)	ND (3.2)		-		**173**		-		ND (3.2)		-
Carbon disulfide	700	ND (0.18)	-	ND (0.18)	-	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	-	ND (0.18)	ND (0.18)	ND (0.18)		-		**0.79**	J	-		ND (0.18)		-
Carbon tetrachloride	1	ND (0.23)	-	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.23)		-		ND (0.23)		-		ND (0.23)		-
Chlorobenzene	50	ND (0.35)	-	ND (0.35)	-	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	-	ND (0.35)	ND (0.35)	ND (0.35)		-		ND (0.35)		-		ND (0.35)		-
Chloroethane	-	ND (0.39)	-	ND (0.39)	-	ND (0.39)	ND (0.39)	ND (0.39)	ND (0.39)	-	ND (0.39)	ND (0.39)	ND (0.39)		-		ND (0.39)		-		ND (0.39)		-
Chloroform	70	ND (0.25)	-	ND (0.25)	-	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	-	ND (0.25)	ND (0.25)	ND (0.25)		-		**1.7**		-		ND (0.25)		-
Chloromethane	-	ND (0.36)	-	ND (0.36)	-	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	-	ND (0.36)	ND (0.36)	ND (0.36)		-		ND (0.36)		-		ND (0.36)		-
Cyclohexane	-	ND (0.18)	-	ND (0.18)	-	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	-	ND (0.18)	ND (0.18)	**0.31**	J	-		ND (0.18)		-		ND (0.18)		-
1,2-Dibromo-3-chloropropane	0.02	ND (1.3)	-	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)		-		ND (1.3)		-		ND (1.3)		-
Dibromochloromethane	1	ND (0.19)	-	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.19)		-		ND (0.19)		-		ND (0.19)		-
1,2-Dibromoethane	0.03	ND (0.16)	-	ND (0.16)	-	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	-	ND (0.16)	ND (0.16)	ND (0.16)		-		ND (0.16)		-		ND (0.16)		-
1,2-Dichlorobenzene	600	ND (0.20)	-	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.20)		-		ND (0.20)		-		ND (0.20)		-
1,3-Dichlorobenzene	600	ND (0.31)	-	ND (0.31)	-	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	-	ND (0.31)	ND (0.31)	ND (0.31)		-		ND (0.31)		-		ND (0.31)		-
1,4-Dichlorobenzene	75	ND (0.30)	-	ND (0.30)	-	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	-	ND (0.30)	ND (0.30)	ND (0.30)		-		ND (0.30)		-		ND (0.30)		-
Dichlorodifluoromethane	1000	ND (0.63)	-	ND (0.63)	-	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	-	ND (0.63)	ND (0.63)	ND (0.63)		-		ND (0.63)		-		ND (0.63)		-
1,1-Dichloroethane	50	ND (0.26)	-	ND (0.26)	-	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	-	ND (0.26)	ND (0.26)	**0.46**	J	-		ND (0.26)		-		ND (0.26)		-
1,2-Dichloroethane	2	ND (0.22)	-	ND (0.22)	-	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	-	ND (0.22)	ND (0.22)	**21.4**		-		**1270**		-		**0.48**	J	-
1,1-Dichloroethene	1	ND (0.34)	-	ND (0.34)	-	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	-	ND (0.34)	ND (0.34)	ND (0.34)		-		ND (0.34)		-		ND (0.34)		-
cis-1,2-Dichloroethene	70	ND (0.24)	-	ND (0.24)	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	-	ND (0.24)	ND (0.24)	**3.2**		-		**1.8**		-		**47.1**		-
trans-1,2-Dichloroethene	100	ND (0.38)	-	ND (0.38)	-	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	-	ND (0.38)	ND (0.38)	ND (0.38)		-		**3**		-		ND (0.38)		-
1,2-Dichloropropane	1	ND (0.28)	-	ND (0.28)	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	-	ND (0.28)	ND (0.28)	ND (0.28)		-		ND (0.28)		-		ND (0.28)		-
cis-1,3-Dichloropropene	-	ND (0.15)	-	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)		-		ND (0.15)		-		ND (0.15)		-
trans-1,3-Dichloropropene	-	ND (0.21)	-	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)		-		ND (0.21)		-		ND (0.21)		-
1,4-Dioxane	-	ND (73)	-	ND (73)	-	ND (73)	ND (73)	ND (73)	ND (73)	-	ND (73)	ND (73)	ND (73)		-		ND (73)		-		ND (73)		-
Ethylbenzene	700	ND (0.21)	-	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)		-		ND (0.21)		-		ND (0.21)		-
Freon 113	-	ND (0.77)	-	ND (0.77)	-	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	-	ND (0.77)	ND (0.77)	ND (0.77)		-		ND (0.77)		-		ND (0.77)		-
2-Hexanone	-	ND (1.7)	-	ND (1.7)	-	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	-	ND (1.7)	ND (1.7)	ND (1.7)		-		ND (1.7)		-		ND (1.7)		-
Isopropylbenzene	700	ND (0.22)	-	ND (0.22)	-	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	-	ND (0.22)	ND (0.22)	**2.4**		-		ND (0.22)		-		ND (0.22)		-
Methyl Acetate	7000	ND (1.5)	-	ND (1.5)	-	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	-	ND (1.5)	ND (1.5)	ND (1.5)		-		ND (1.5)		-		ND (1.5)		-
Methylcyclohexane	-	ND (0.15)	-	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)		-		ND (0.15)		-		ND (0.15)		-
Methyl Tert Butyl Ether	70	ND (0.29)	-	ND (0.29)	-	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	-	ND (0.29)	ND (0.29)	ND (0.29)		-		ND (0.29)		-		ND (0.29)		-
4-Methyl-2-pentanone(MIBK)	-	ND (1.5)	-	ND (1.5)	-	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	-	ND (1.5)	ND (1.5)	ND (1.5)		-		ND (1.5)		-		ND (1.5)		-
Methylene chloride	3	ND (0.86)	-	ND (0.86)	-	ND (0.86)	ND (0.86)	ND (0.86)	ND (0.86)	-	ND (0.86)	ND (0.86)	ND (0.86)		-		**4.5**		-		ND (0.86)		-
Styrene	100	ND (0.30)	-	ND (0.30)	-	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	-	ND (0.30)	ND (0.30)	ND (0.30)		-		ND (0.30)		-		ND (0.30)		-
1,1,2,2-Tetrachloroethane	1	ND (0.20)	-	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.20)		-		**22.5**		-		ND (0.20)		-
Tetrachloroethene	1	ND (0.25)	-	ND (0.25)	-	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	-	ND (0.25)	ND (0.25)	ND (0.25)		-		**5**		-		**1.4**		-
Toluene	600	ND (0.44)	-	ND (0.44)	-	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	-	ND (0.44)	ND (0.44)	ND (0.44)		-		**1.7**		-		ND (0.44)		-
1,2,3-Trichlorobenzene	-	ND (0.24)	-	ND (0.24)	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	-	ND (0.24)	ND (0.24)	ND (0.24)		-		ND (0.24)		-		ND (0.24)		-
1,2,4-Trichlorobenzene	9	ND (0.22)	-	ND (0.22)	-	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	-	ND (0.22)	ND (0.22)	ND (0.22)		-		ND (0.22)		-		ND (0.22)		-
1,1,1-Trichloroethane	30	ND (0.25)	-	ND (0.25)	-	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	-	ND (0.25)	ND (0.25)	**0.46**	J	-		ND (0.25)		-		ND (0.25)		-
1,1,2-Trichloroethane	3	ND (0.21)	-	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)		-		**0.49**	J	-		ND (0.21)		-
Trichloroethene	1	ND (0.50)	-	ND (0.50)	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-	ND (0.50)	ND (0.50)	**23.1**		-		**1.6**		-		**54.9**		-
Trichlorofluoromethane	2000	ND (0.33)	-	ND (0.33)	-	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	-	ND (0.33)	ND (0.33)	ND (0.33)		-		ND (0.33)		-		ND (0.33)		-
Vinyl chloride	1	ND (0.41)	-	ND (0.41)	-	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	-	ND (0.41)	ND (0.41)	ND (0.41)		-		ND (0.41)		-		ND (0.41)		-
m,p-Xylene	-	ND (0.40)	-	ND (0.40)	-	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	-	ND (0.40)	ND (0.40)	ND (0.40)		-		**0.43**	J	-		ND (0.40)		-
o-Xylene	-	ND (0.19)	-	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.19)		-		**0.24**	J	-		ND (0.19)		-
Xylene (total)	1000	ND (0.19)	-	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.19)		-		**0.67**	J	-		ND (0.19)		-
Total VOCs	-	0		0		0	0	0	0		0	0	52.16				1588.75				103.88		
GC/MS Volatile TIC																							
Total TIC, Volatile	-	0	-	0	-	0	0	0	0	-	0	0	0		-		**7.2**	J	-		0		-
Total Alkanes	-	0	-	0	-	0	0	0	0	-	0	0	0		-		0		-		0		-
Metals Analysis																							
Chromium	70	<10	<10	<10	<10	-	-	-	<10	<10	-	-	<10		<10		**208**		<10		<10		<10
Iron	300	-	<100	-	<100	-	-	-	-	<100	-	-	-		**5670**		-		**22200**		-		**40400**
Sodium	50000	<10000	-	<10000	-	-	-	-	<10000	-	-	-	**18300**		-		**22300**		-		**18000**		-
General Chemistry																							
Solids, Total Dissolved	500000	<10000	-	<10000	-	-	-	-	<10000	-	-	-	**206000**		-		**433000**		-		**580000**		-
Sulfate	250000	<10000	-	<10000	-	-	-	-	<10000	-	-	-	**101000**		-		**120000**		-		**241000**		-

Notes:
ND, < Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Groundwater Analytical Results
Table 3

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010)	ISCO-MW-3-DUP		ISCO-MW-3-DUP		ISCO-MW-4		ISCO-MW-4		ISCO-MW-5		ISCO-MW-5		ISCO-MW-6		ISCO-MW-6		ISCO-MW-7		ISCO-MW-7		ISCO-MW-8		ISCO-MW-8		ISCO-MW-9		ISCO-MW-9		IW1-BT-2		IW1-BT-2	
Lab Sample ID		JB57365-11		JB57365-11F		JB59106-1		JB59106-1F		JB57365-3		JB57365-3F		JB57365-4		JB57365-4F		JB57365-18		JB57365-18F		JB57365-5		JB57365-5F		JB57365-20		JB57365-20F		JB57365-8		JB57365-8F	
Sample Date		1/9/2014		1/9/2014		2/3/2014		2/3/2014		1/9/2014		1/9/2014		1/9/2014		1/9/2014		1/10/2014		1/10/2014		1/9/2014		1/9/2014		1/10/2014		1/10/2014		1/9/2014		1/9/2014	
Matrix		GW		GW - FILTERED		GW		GW - FILTERED		GW		GW - FILTERED		GW		GW - FILTERED		GW		GW - FILTERED		GW		GW - FILTERED		GW		GW - FILTERED		GW		GW - FILTERED	
Unit	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Volatile Organic Compounds (VOCs)																																	
Acetone	6000	ND (3.3)		-		ND (3.3)		-		ND (3.3)		-		ND (3.3)		-		ND (3.3)		-		**30**		-		ND (3.3)		-		ND (3.3)		-	
Benzene	1	ND (0.28)		-		ND (0.28)		-		**0.69**	J	-		ND (0.28)		-		ND (0.28)		-		ND (0.28)		-		ND (0.28)		-		ND (0.28)		-	
Bromochloromethane	-	ND (0.42)		-		ND (0.42)		-		ND (0.42)		-		ND (0.42)		-		ND (0.42)		-		ND (0.42)		-		ND (0.42)		-		ND (0.42)		-	
Bromodichloromethane	1	ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-	
Bromoform	4	ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-	
Bromomethane	10	ND (0.56)		-		ND (0.56)		-		ND (0.56)		-		ND (0.56)		-		ND (0.56)		-		ND (0.56)		-		ND (0.56)		-		ND (0.56)		-	
2-Butanone (MEK)	300	ND (3.2)		-		ND (3.2)		-		ND (3.2)		-		ND (3.2)		-		ND (3.2)		-		ND (3.2)		-		ND (3.2)		-		ND (3.2)		-	
Carbon disulfide	700	ND (0.18)		-		ND (0.18)		-		ND (0.18)		-		ND (0.18)		-		ND (0.18)		-		ND (0.18)		-		ND (0.18)		-		ND (0.18)		-	
Carbon tetrachloride	1	ND (0.23)		-		ND (0.23)		-		ND (0.23)		-		ND (0.23)		-		**0.8**	J	-		**0.65**	J	-		ND (0.23)		-		ND (0.23)		-	
Chlorobenzene	50	ND (0.35)		-		ND (0.35)		-		ND (0.35)		-		ND (0.35)		-		ND (0.35)		-		ND (0.35)		-		ND (0.35)		-		ND (0.35)		-	
Chloroethane	-	ND (0.39)		-		ND (0.39)		-		ND (0.39)		-		ND (0.39)		-		ND (0.39)		-		ND (0.39)		-		ND (0.39)		-		ND (0.39)		-	
Chloroform	70	ND (0.25)		-		**0.36**	J	-		ND (0.25)		-		ND (0.25)		-		**1.4**		-		**1.7**		-		ND (0.25)		-		**1.3**		-	
Chloromethane	-	ND (0.36)		-		ND (0.36)		-		ND (0.36)		-		ND (0.36)		-		ND (0.36)		-		ND (0.36)		-		ND (0.36)		-		ND (0.36)		-	
Cyclohexane	-	ND (0.18)		-		ND (0.18)		-		ND (0.18)		-		ND (0.18)		-		ND (0.18)		-		ND (0.18)		-		ND (0.18)		-		ND (0.18)		-	
1,2-Dibromo-3-chloropropane	0.02	ND (1.3)		-		ND (1.3)		-		ND (1.3)		-		ND (1.3)		-		ND (1.3)		-		ND (1.3)		-		ND (1.3)		-		ND (1.3)		-	
Dibromochloromethane	1	ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-	
1,2-Dibromoethane	0.03	ND (0.16)		-		ND (0.16)		-		ND (0.16)		-		ND (0.16)		-		ND (0.16)		-		ND (0.16)		-		ND (0.16)		-		ND (0.16)		-	
1,2-Dichlorobenzene	600	ND (0.20)		-		ND (0.20)		-		ND (0.20)		-		ND (0.20)		-		ND (0.20)		-		ND (0.20)		-		ND (0.20)		-		ND (0.20)		-	
1,3-Dichlorobenzene	600	ND (0.31)		-		ND (0.31)		-		ND (0.31)		-		ND (0.31)		-		ND (0.31)		-		ND (0.31)		-		ND (0.31)		-		ND (0.31)		-	
1,4-Dichlorobenzene	75	ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-	
Dichlorodifluoromethane	1000	ND (0.63)		-		ND (0.63)		-		ND (0.63)		-		ND (0.63)		-		ND (0.63)		-		ND (0.63)		-		ND (0.63)		-		ND (0.63)		-	
1,1-Dichloroethane	50	ND (0.26)		-		ND (0.26)		-		ND (0.26)		-		ND (0.26)		-		ND (0.26)		-		ND (0.26)		-		ND (0.26)		-		ND (0.26)		-	
1,2-Dichloroethane	2	**0.5**	J	-		**0.98**	J	-		**46.7**		-		**0.56**	J	-		**1.1**		-		**36.8**		-		ND (0.22)		-		ND (0.22)		-	
1,1-Dichloroethene	1	ND (0.34)		-		ND (0.34)		-		ND (0.34)		-		ND (0.34)		-		ND (0.34)		-		ND (0.34)		-		ND (0.34)		-		ND (0.34)		-	
cis-1,2-Dichloroethene	70	**56.8**		-		ND (0.24)		-		**9.2**		-		**1.4**		-		ND (0.24)		-		**0.58**	J	-		**2.6**		-		ND (0.24)		-	
trans-1,2-Dichloroethene	100	ND (0.38)		-		ND (0.38)		-		ND (0.38)		-		ND (0.38)		-		ND (0.38)		-		ND (0.38)		-		ND (0.38)		-		ND (0.38)		-	
1,2-Dichloropropane	1	ND (0.28)		-		ND (0.28)		-		ND (0.28)		-		ND (0.28)		-		ND (0.28)		-		ND (0.28)		-		ND (0.28)		-		ND (0.28)		-	
cis-1,3-Dichloropropene	-	ND (0.15)		-		ND (0.15)		-		ND (0.15)		-		ND (0.15)		-		ND (0.15)		-		ND (0.15)		-		ND (0.15)		-		ND (0.15)		-	
trans-1,3-Dichloropropene	-	ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-	
1,4-Dioxane	-	ND (73)		-		ND (73)		-		ND (73)		-		ND (73)		-		ND (73)		-		ND (73)		-		ND (73)		-		ND (73)		-	
Ethylbenzene	700	ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-	
Freon 113	-	ND (0.77)		-		ND (0.77)		-		ND (0.77)		-		ND (0.77)		-		ND (0.77)		-		ND (0.77)		-		ND (0.77)		-		ND (0.77)		-	
2-Hexanone	-	ND (1.7)		-		ND (1.7)		-		ND (1.7)		-		ND (1.7)		-		ND (1.7)		-		ND (1.7)		-		ND (1.7)		-		ND (1.7)		-	
Isopropylbenzene	700	ND (0.22)		-		ND (0.22)		-		**0.61**	J	-		ND (0.22)		-		ND (0.22)		-		ND (0.22)		-		ND (0.22)		-		ND (0.22)		-	
Methyl Acetate	7000	ND (1.5)		-		ND (1.5)		-		ND (1.5)		-		ND (1.5)		-		ND (1.5)		-		ND (1.5)		-		ND (1.5)		-		ND (1.5)		-	
Methylcyclohexane	-	ND (0.15)		-		ND (0.15)		-		ND (0.15)		-		ND (0.15)		-		ND (0.15)		-		ND (0.15)		-		ND (0.15)		-		ND (0.15)		-	
Methyl Tert Butyl Ether	70	ND (0.29)		-		ND (0.29)		-		ND (0.29)		-		ND (0.29)		-		ND (0.29)		-		**1.1**		-		ND (0.29)		-		ND (0.29)		-	
4-Methyl-2-pentanone(MIBK)	-	ND (1.5)		-		ND (1.5)		-		ND (1.5)		-		ND (1.5)		-		ND (1.5)		-		ND (1.5)		-		ND (1.5)		-		ND (1.5)		-	
Methylene chloride	3	ND (0.86)		-		**2.6**		-		**8.4**		-		ND (0.86)		-		ND (0.86)		-		**2.3**		-		ND (0.86)		-		ND (0.86)		-	
Styrene	100	ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-	
1,1,2,2-Tetrachloroethane	1	ND (0.20)		-		ND (0.20)		-		**0.29**	J	-		ND (0.20)		-		ND (0.20)		-		ND (0.20)		-		ND (0.20)		-		ND (0.20)		-	
Tetrachloroethene	1	**1.6**		-		ND (0.25)		-		**0.79**	J	-		ND (0.25)		-		**0.91**	J	-		**1.2**		-		**0.6**	J	-		ND (0.25)		-	
Toluene	600	ND (0.44)		-		ND (0.44)		-		ND (0.44)		-		ND (0.44)		-		ND (0.44)		-		ND (0.44)		-		ND (0.44)		-		ND (0.44)		-	
1,2,3-Trichlorobenzene	-	ND (0.24)		-		ND (0.24)		-		ND (0.24)		-		ND (0.24)		-		ND (0.24)		-		ND (0.24)		-		ND (0.24)		-		ND (0.24)		-	
1,2,4-Trichlorobenzene	9	ND (0.22)		-		ND (0.22)		-		ND (0.22)		-		ND (0.22)		-		ND (0.22)		-		ND (0.22)		-		ND (0.22)		-		ND (0.22)		-	
1,1,1-Trichloroethane	30	ND (0.25)		-		ND (0.25)		-		ND (0.25)		-		ND (0.25)		-		ND (0.25)		-		ND (0.25)		-		ND (0.25)		-		ND (0.25)		-	
1,1,2-Trichloroethane	3	ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-	
Trichloroethene	1	**64**		-		**0.8**	J	-		**17.1**		-		**2**		-		**2**		-		**5.8**		-		**44**		-		**1.6**		-	
Trichlorofluoromethane	2000	ND (0.33)		-		ND (0.33)		-		ND (0.33)		-		ND (0.33)		-		ND (0.33)		-		ND (0.33)		-		ND (0.33)		-		ND (0.33)		-	
Vinyl chloride	1	ND (0.41)		-		ND (0.41)		-		ND (0.41)		-		ND (0.41)		-		ND (0.41)		-		ND (0.41)		-		ND (0.41)		-		ND (0.41)		-	
m,p-Xylene	-	ND (0.40)		-		ND (0.40)		-		ND (0.40)		-		ND (0.40)		-		ND (0.40)		-		ND (0.40)		-		ND (0.40)		-		ND (0.40)		-	
o-Xylene	-	ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-	
Xylene (total)	1000	ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-	
Total VOCs	-	122.9				4.74				83.78				3.96				6.21				80.13				47.2				2.9			
GC/MS Volatile TIC																																	
Total TIC, Volatile	-	0		-		0		-		0		-		0		-		0		-		0		-		**12**	J	-		0		-	
Total Alkanes	-	0		-		0		-		0		-		0		-		0		-		0		-		0		-		0		-	
Metals Analysis																																	
Chromium	70	<10		<10		**16.4**		<10		<10		<10		<10		<10		**22.7**		**12.4**		**677**		**418**		**162**		<10		<10		<10	
Iron	300	-		**42600**		-		<100		-		**12200**		-		**165**		-		**145**		-		**2920**		-		**1960**		-		**235**	
Sodium	50000	**18800**		-		**15600**		-		**29000**		-		**54200**		-		**14300**		-		**599000**		-		<10000		-		**42000**		-	
General Chemistry																																	
Solids, Total Dissolved	500000	**530000**		-		**46000**		-		**307000**		-		**297000**		-		**92000**		-		**1300000**		-		**203000**		-		**247000**		-	
Sulfate	250000	**214000**		-		**56300**		-		**154000**		-		**153000**		-		**31700**		-		**682000**		-		**106000**		-		**56200**		-	

Notes:
ND, < Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Groundwater Analytical Results
Table 3

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010)	IW1-DR-1		IW1-DR-1		IW-4S		PZ-1S		PZ-1S		MW-5I		MW-5I		MW-6S		MW-9I		MW-9I-DUP		MW-10S		MW-10S		MW-11I		MW-11I		MW-14S		MW-14S	
Lab Sample ID		JB57365-12		JB57365-12F		JB57365-6		JB57365-2		JB57365-2F		JB57365-17		JB57365-17F		JB57510-2		JB57510-3		JB57510-4		JB57365-13		JB57365-13F		JB57365-16		JB57365-16F		JB57365-15		JB57365-15F	
Sample Date		1/10/2014		1/10/2014		1/9/2014		1/9/2014		1/9/2014		1/10/2014		1/10/2014		1/13/2014		1/13/2014		1/13/2014		1/10/2014		1/10/2014		1/10/2014		1/10/2014		1/10/2014		1/10/2014	
Matrix		GW		GW - FILTERED		GW		GW		GW - FILTERED		GW		GW - FILTERED		GW		GW		GW		GW		GW		GW		GW		GW	
Unit		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Volatile Organic Compounds (VOCs)																																	
Acetone	6000	ND (3.3)		-		ND (3.3)		ND (3.3)		-		ND (3.3)		-		ND (3.3)		ND (3.3)		ND (3.3)		ND (3.3)		-		ND (3.3)		-		ND (3.3)		-	
Benzene	1	ND (0.28)		-		ND (0.28)		ND (0.28)		-		ND (0.28)		-		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		-		ND (0.28)		-		ND (0.28)		-	
Bromochloromethane	-	ND (0.42)		-		ND (0.42)		ND (0.42)		-		ND (0.42)		-		ND (0.42)		ND (0.42)		ND (0.42)		ND (0.42)		-		ND (0.42)		-		ND (0.42)		-	
Bromodichloromethane	1	ND (0.21)		-		ND (0.21)		ND (0.21)		-		ND (0.21)		-		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-	
Bromoform	4	ND (0.30)		-		ND (0.30)		ND (0.30)		-		ND (0.30)		-		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-	
Bromomethane	10	ND (0.56)		-		ND (0.56)		ND (0.56)		-		ND (0.56)		-		ND (0.56)		ND (0.56)		ND (0.56)		ND (0.56)		-		ND (0.56)		-		ND (0.56)		-	
2-Butanone (MEK)	300	ND (3.2)		-		ND (3.2)		ND (3.2)		-		ND (3.2)		-		ND (3.2)		ND (3.2)		ND (3.2)		ND (3.2)		-		ND (3.2)		-		ND (3.2)		-	
Carbon disulfide	700	ND (0.18)		-		ND (0.18)		ND (0.18)		-		ND (0.18)		-		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		-		ND (0.18)		-		ND (0.18)		-	
Carbon tetrachloride	1	ND (0.23)		-		ND (0.23)		ND (0.23)		-		ND (0.23)		-		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)		-		ND (0.23)		-		ND (0.23)		-	
Chlorobenzene	50	ND (0.35)		-		ND (0.35)		ND (0.35)		-		ND (0.35)		-		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)		-		ND (0.35)		-		ND (0.35)		-	
Chloroethane	-	ND (0.39)		-		ND (0.39)		ND (0.39)		-		ND (0.39)		-		ND (0.39)		ND (0.39)		ND (0.39)		ND (0.39)		-		ND (0.39)		-		ND (0.39)		-	
Chloroform	70	ND (0.25)		-		ND (0.25)		**0.63**	J	-		ND (0.25)		-		ND (0.25)		ND (0.25)		ND (0.25)		**0.62**	J	-		**0.27**	J	-		ND (0.25)		-	
Chloromethane	-	ND (0.36)		-		ND (0.36)		ND (0.36)		-		ND (0.36)		-		ND (0.36)		ND (0.36)		ND (0.36)		ND (0.36)		-		ND (0.36)		-		ND (0.36)		-	
Cyclohexane	-	ND (0.18)		-		ND (0.18)		ND (0.18)		-		ND (0.18)		-		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		-		ND (0.18)		-		ND (0.18)		-	
1,2-Dibromo-3-chloropropane	0.02	ND (1.3)		-		ND (1.3)		ND (1.3)		-		ND (1.3)		-		ND (1.3)		ND (1.3)		ND (1.3)		ND (1.3)		-		ND (1.3)		-		ND (1.3)		-	
Dibromochloromethane	1	ND (0.19)		-		ND (0.19)		ND (0.19)		-		ND (0.19)		-		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-	
1,2-Dibromoethane	0.03	ND (0.16)		-		ND (0.16)		ND (0.16)		-		ND (0.16)		-		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		-		ND (0.16)		-		ND (0.16)		-	
1,2-Dichlorobenzene	600	ND (0.20)		-		ND (0.20)		ND (0.20)		-		ND (0.20)		-		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		-		ND (0.20)		-		ND (0.20)		-	
1,3-Dichlorobenzene	600	ND (0.31)		-		ND (0.31)		ND (0.31)		-		ND (0.31)		-		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)		-		ND (0.31)		-		ND (0.31)		-	
1,4-Dichlorobenzene	75	ND (0.30)		-		ND (0.30)		ND (0.30)		-		ND (0.30)		-		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-	
Dichlorodifluoromethane	1000	ND (0.63)		-		ND (0.63)		ND (0.63)		-		ND (0.63)		-		ND (0.63)		ND (0.63)		ND (0.63)		ND (0.63)		-		ND (0.63)		-		ND (0.63)		-	
1,1-Dichloroethane	50	ND (0.26)		-		ND (0.26)		ND (0.26)		-		ND (0.26)		-		ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)		-		ND (0.26)		-		ND (0.26)		-	
1,2-Dichloroethane	2	ND (0.22)		-		ND (0.22)		**0.56**	J	-		**1.9**		-		ND (0.22)		ND (0.22)		ND (0.22)		**1.2**		-		ND (0.22)		-		ND (0.22)		-	
1,1-Dichloroethene	1	ND (0.34)		-		ND (0.34)		ND (0.34)		-		ND (0.34)		-		ND (0.34)		ND (0.34)		ND (0.34)		ND (0.34)		-		ND (0.34)		-		ND (0.34)		-	
cis-1,2-Dichloroethene	70	ND (0.24)		-		**0.8**	J	**1.4**		-		ND (0.24)		-		ND (0.24)		ND (0.24)		ND (0.24)		**5.9**		-		ND (0.24)		-		ND (0.24)		-	
trans-1,2-Dichloroethene	100	ND (0.38)		-		ND (0.38)		ND (0.38)		-		ND (0.38)		-		ND (0.38)		ND (0.38)		ND (0.38)		ND (0.38)		-		ND (0.38)		-		ND (0.38)		-	
1,2-Dichloropropane	1	ND (0.28)		-		ND (0.28)		ND (0.28)		-		ND (0.28)		-		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		-		ND (0.28)		-		ND (0.28)		-	
cis-1,3-Dichloropropene	-	ND (0.15)		-		ND (0.15)		ND (0.15)		-		ND (0.15)		-		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		-		ND (0.15)		-		ND (0.15)		-	
trans-1,3-Dichloropropene	-	ND (0.21)		-		ND (0.21)		ND (0.21)		-		ND (0.21)		-		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-	
1,4-Dioxane	-	ND (73)		-		ND (73)		ND (73)		-		ND (73)		-		ND (73)		ND (73)		ND (73)		ND (73)		-		ND (73)		-		ND (73)		-	
Ethylbenzene	700	ND (0.21)		-		ND (0.21)		ND (0.21)		-		ND (0.21)		-		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-	
Freon 113	-	ND (0.77)		-		ND (0.77)		ND (0.77)		-		ND (0.77)		-		ND (0.77)		ND (0.77)		ND (0.77)		ND (0.77)		-		ND (0.77)		-		ND (0.77)		-	
2-Hexanone	-	ND (1.7)		-		ND (1.7)		ND (1.7)		-		ND (1.7)		-		ND (1.7)		ND (1.7)		ND (1.7)		ND (1.7)		-		ND (1.7)		-		ND (1.7)		-	
Isopropylbenzene	700	ND (0.22)		-		ND (0.22)		ND (0.22)		-		ND (0.22)		-		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		-		ND (0.22)		-		ND (0.22)		-	
Methyl Acetate	7000	ND (1.5)		-		ND (1.5)		ND (1.5)		-		ND (1.5)		-		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		-		ND (1.5)		-		ND (1.5)		-	
Methylcyclohexane	-	ND (0.15)		-		ND (0.15)		ND (0.15)		-		ND (0.15)		-		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		-		ND (0.15)		-		ND (0.15)		-	
Methyl Tert Butyl Ether	70	ND (0.29)		-		ND (0.29)		ND (0.29)		-		ND (0.29)		-		ND (0.29)		ND (0.29)		ND (0.29)		ND (0.29)		-		ND (0.29)		-		ND (0.29)		-	
4-Methyl-2-pentanone(MIBK)	-	ND (1.5)		-		ND (1.5)		ND (1.5)		-		ND (1.5)		-		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		-		ND (1.5)		-		ND (1.5)		-	
Methylene chloride	3	ND (0.86)		-		ND (0.86)		ND (0.86)		-		ND (0.86)		-		ND (0.86)		ND (0.86)		ND (0.86)		ND (0.86)		-		ND (0.86)		-		ND (0.86)		-	
Styrene	100	ND (0.30)		-		ND (0.30)		ND (0.30)		-		ND (0.30)		-		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		-		ND (0.30)		-		ND (0.30)		-	
1,1,2,2-Tetrachloroethane	1	ND (0.20)		-		ND (0.20)		ND (0.20)		-		ND (0.20)		-		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		-		ND (0.20)		-		ND (0.20)		-	
Tetrachloroethene	1	**0.72**	J	-		ND (0.25)		ND (0.25)		-		ND (0.25)		-		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)		-		ND (0.25)		-		ND (0.25)		-	
Toluene	600	ND (0.44)		-		ND (0.44)		ND (0.44)		-		ND (0.44)		-		ND (0.44)		ND (0.44)		ND (0.44)		ND (0.44)		-		ND (0.44)		-		ND (0.44)		-	
1,2,3-Trichlorobenzene	-	ND (0.24)		-		ND (0.24)		ND (0.24)		-		ND (0.24)		-		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		-		ND (0.24)		-		ND (0.24)		-	
1,2,4-Trichlorobenzene	9	ND (0.22)		-		ND (0.22)		ND (0.22)		-		ND (0.22)		-		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		-		ND (0.22)		-		ND (0.22)		-	
1,1,1-Trichloroethane	30	ND (0.25)		-		ND (0.25)		ND (0.25)		-		ND (0.25)		-		**0.42**	J	ND (0.25)		ND (0.25)		ND (0.25)		-		**1.6**		-		ND (0.25)		-	
1,1,2-Trichloroethane	3	ND (0.21)		-		ND (0.21)		ND (0.21)		-		ND (0.21)		-		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		-		ND (0.21)		-		ND (0.21)		-	
Trichloroethene	1	**1.1**		-		**2.4**		**2**		-		ND (0.50)		-		ND (0.50)		ND (0.50)		ND (0.50)		**5.5**		-		ND (0.50)		-		ND (0.50)		-	
Trichlorofluoromethane	2000	ND (0.33)		-		ND (0.33)		ND (0.33)		-		ND (0.33)		-		ND (0.33)		ND (0.33)		ND (0.33)		ND (0.33)		-		ND (0.33)		-		ND (0.33)		-	
Vinyl chloride	1	ND (0.41)		-		ND (0.41)		ND (0.41)		-		ND (0.41)		-		ND (0.41)		ND (0.41)		ND (0.41)		ND (0.41)		-		ND (0.41)		-		ND (0.41)		-	
m,p-Xylene	-	ND (0.40)		-		ND (0.40)		ND (0.40)		-		ND (0.40)		-		ND (0.40)		ND (0.40)		ND (0.40)		ND (0.40)		-		ND (0.40)		-		ND (0.40)		-	
o-Xylene	-	ND (0.19)		-		ND (0.19)		ND (0.19)		-		ND (0.19)		-		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-	
Xylene (total)	1000	ND (0.19)		-		ND (0.19)		ND (0.19)		-		ND (0.19)		-		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		-		ND (0.19)		-		ND (0.19)		-	
Total VOCs	-	1.82				3.2		4.59				1.9				0.42		0		0		13.22				1.87				0			
GC/MS Volatile TIC																																	
Total TIC, Volatile	-	0		-		0		0		-		0		-		0		0		0		0		-		0		-		0		-	
Total Alkanes	-	0		-		0		0		-		0		-		0		0		0		0		-		0		-		0		-	
Metals Analysis																																	
Chromium	70	<10		<10		-		<10		<10		<10		<10		-		-		-		<10		<10		<10		<10		<10		<10	
Iron	300	-		**27500**		-		-		<100		-		**134**		-		-		-		-		<100		-		<100		-		<100	
Sodium	50000	**12200**		-		-		**16500**		-		<10000		-		-		-		-		**25500**		-		<10000		-		**229000**		-	
General Chemistry																																	
Solids, Total Dissolved	500000	**218000**		-		-		**384000**		-		**205000**		-		-		-		-		**214000**		-		**118000**		-		**1090000**		-	
Sulfate	250000	**101000**		-		-		**177000**		-		**68000**		-		-		-		-		**84800**		-		**39900**		-		**342000**		-	

Notes:
ND, < Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Groundwater Analytical Results
Table 3

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010)	MW-14SD		MW-14SD		MW-15D		MW-19S		MW-23S		MW-23I		MW-23D		MW-24		MW-28		WCC-1S		WCC-1M		WCC-3M		EW-3	
Lab Sample ID		JB57365-14		JB57365-14F		JB57510-9		JB57510-7		JB57131-2		JB57131-3		JB57131-1		JB57510-1		JB57510-8		JB57510-6		JB57510-5		JB57510-10		JB59106-3	
Sample Date		1/10/2014		1/10/2014		1/13/2014		1/13/2014		1/6/2014		1/6/2014		1/6/2014		1/13/2014		1/13/2014		1/13/2014		1/13/2014		1/13/2014		2/3/2014	
Matrix		GW		GW		GW		GW		GW		GW		GW		GW		GW		GW		GW		GW		GW	
Unit	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Volatile Organic Compounds (VOCs)																											
Acetone	6000	ND (3.3)		-		ND (3.3)		ND (3.3)		ND (3.3)		ND (3.3)		ND (3.3)		ND (3.3)		ND (3.3)		ND (3.3)		ND (3.3)		ND (3.3)		ND (3.3)	
Benzene	1	ND (0.28)		-		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
Bromochloromethane	-	ND (0.42)		-		ND (0.42)		ND (0.42)		ND (0.42)		ND (0.42)		ND (0.42)		ND (0.42)		ND (0.42)		ND (0.42)		ND (0.42)		ND (0.42)		ND (0.42)	
Bromodichloromethane	1	ND (0.21)		-		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)	
Bromoform	4	ND (0.30)		-		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)	
Bromomethane	10	ND (0.56)		-		ND (0.56)		ND (0.56)		ND (0.56)		ND (0.56)		ND (0.56)		ND (0.56)		ND (0.56)		ND (0.56)		ND (0.56)		ND (0.56)		ND (0.56)	
2-Butanone (MEK)	300	ND (3.2)		-		ND (3.2)		ND (3.2)		ND (3.2)		ND (3.2)		ND (3.2)		ND (3.2)		ND (3.2)		ND (3.2)		ND (3.2)		ND (3.2)		ND (3.2)	
Carbon disulfide	700	ND (0.18)		-		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Carbon tetrachloride	1	ND (0.23)		-		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)	
Chlorobenzene	50	ND (0.35)		-		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)	
Chloroethane	-	ND (0.39)		-		ND (0.39)		ND (0.39)		ND (0.39)		ND (0.39)		ND (0.39)		ND (0.39)		ND (0.39)		ND (0.39)		ND (0.39)		ND (0.39)		ND (0.39)	
Chloroform	70	ND (0.25)		-		ND (0.25)		ND (0.25)		**1.6**		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)		**0.46**	J	**0.5**	J	ND (0.25)	
Chloromethane	-	ND (0.36)		-		ND (0.36)		ND (0.36)		ND (0.36)		ND (0.36)		ND (0.36)		ND (0.36)		ND (0.36)		ND (0.36)		ND (0.36)		ND (0.36)		ND (0.36)	
Cyclohexane	-	ND (0.18)		-		ND (0.18)		**1.1**	J	ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
1,2-Dibromo-3-chloropropane	0.02	ND (1.3)		-		ND (1.3)		ND (1.3)		ND (1.3)		ND (1.3)		ND (1.3)		ND (1.3)		ND (1.3)		ND (1.3)		ND (1.3)		ND (1.3)		ND (1.3)	
Dibromochloromethane	1	ND (0.19)		-		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
1,2-Dibromoethane	0.03	ND (0.16)		-		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
1,2-Dichlorobenzene	600	ND (0.20)		-		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
1,3-Dichlorobenzene	600	ND (0.31)		-		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)	
1,4-Dichlorobenzene	75	ND (0.30)		-		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)	
Dichlorodifluoromethane	1000	ND (0.63)		-		ND (0.63)		ND (0.63)		ND (0.63)		ND (0.63)		ND (0.63)		ND (0.63)		ND (0.63)		ND (0.63)		ND (0.63)		ND (0.63)		ND (0.63)	
1,1-Dichloroethane	50	ND (0.26)		-		ND (0.26)		**0.42**	J	ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)	
1,2-Dichloroethane	2	ND (0.22)		-		ND (0.22)		ND (0.22)		**15.6**		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		**35.1**		ND (0.22)		ND (0.22)	
1,1-Dichloroethene	1	ND (0.34)		-		**2**		ND (0.34)		ND (0.34)		ND (0.34)		ND (0.34)		ND (0.34)		ND (0.34)		ND (0.34)		ND (0.34)		**0.43**	J	ND (0.34)	
cis-1,2-Dichloroethene	70	ND (0.24)		-		ND (0.24)		**5.4**		**5.1**		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		**7.7**		ND (0.24)		ND (0.24)	
trans-1,2-Dichloroethene	100	ND (0.38)		-		ND (0.38)		**1.8**		ND (0.38)		ND (0.38)		ND (0.38)		ND (0.38)		ND (0.38)		ND (0.38)		ND (0.38)		ND (0.38)		ND (0.38)	
1,2-Dichloropropane	1	ND (0.28)		-		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
cis-1,3-Dichloropropene	-	ND (0.15)		-		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
trans-1,3-Dichloropropene	-	ND (0.21)		-		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)	
1,4-Dioxane	-	ND (73)		-		ND (73)		ND (73)		ND (73)		ND (73)		ND (73)		ND (73)		ND (73)		ND (73)		ND (73)		ND (73)		ND (73)	
Ethylbenzene	700	ND (0.21)		-		ND (0.21)		**5.3**		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)	
Freon 113	-	ND (0.77)		-		ND (0.77)		ND (0.77)		ND (0.77)		ND (0.77)		ND (0.77)		ND (0.77)		ND (0.77)		ND (0.77)		ND (0.77)		ND (0.77)		ND (0.77)	
2-Hexanone	-	ND (1.7)		-		ND (1.7)		ND (1.7)		ND (1.7)		ND (1.7)		ND (1.7)		ND (1.7)		ND (1.7)		ND (1.7)		ND (1.7)		ND (1.7)		ND (1.7)	
Isopropylbenzene	700	ND (0.22)		-		ND (0.22)		**0.77**	J	ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		**0.28**	J	ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)	
Methyl Acetate	7000	ND (1.5)		-		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)	
Methylcyclohexane	-	ND (0.15)		-		ND (0.15)		**1.8**	J	ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		**0.4**	J	ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
Methyl Tert Butyl Ether	70	ND (0.29)		-		ND (0.29)		ND (0.29)		ND (0.29)		ND (0.29)		**0.63**	J	ND (0.29)		ND (0.29)		ND (0.29)		ND (0.29)		**1.3**		ND (0.29)	
4-Methyl-2-pentanone(MIBK)	-	ND (1.5)		-		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)		ND (1.5)	
Methylene chloride	3	ND (0.86)		-		ND (0.86)		ND (0.86)		**4.7**		ND (0.86)		ND (0.86)		ND (0.86)		ND (0.86)		ND (0.86)		ND (0.86)		ND (0.86)		ND (0.86)	
Styrene	100	ND (0.30)		-		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)	
1,1,2,2-Tetrachloroethane	1	ND (0.20)		-		ND (0.20)		ND (0.20)		**0.36**	J	ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		**0.29**	J	**0.23**	J	**0.48**	J
Tetrachloroethene	1	ND (0.25)		-		ND (0.25)		ND (0.25)		**0.27**	J	ND (0.25)		ND (0.25)		ND (0.25)		**0.27**	J	ND (0.25)		**0.27**	J	ND (0.25)		ND (0.25)	
Toluene	600	ND (0.44)		-		ND (0.44)		ND (0.44)		ND (0.44)		ND (0.44)		ND (0.44)		ND (0.44)		ND (0.44)		ND (0.44)		ND (0.44)		ND (0.44)		ND (0.44)	
1,2,3-Trichlorobenzene	-	ND (0.24)		-		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)	
1,2,4-Trichlorobenzene	9	ND (0.22)		-		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)	
1,1,1-Trichloroethane	30	ND (0.25)		-		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)	
1,1,2-Trichloroethane	3	ND (0.21)		-		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)	
Trichloroethene	1	ND (0.50)		-		ND (0.50)		**4**		**7.3**		ND (0.50)		ND (0.50)		ND (0.50)		ND (0.50)		ND (0.50)		**5.1**		ND (0.50)		ND (0.50)	
Trichlorofluoromethane	2000	ND (0.33)		-		ND (0.33)		ND (0.33)		ND (0.33)		ND (0.33)		ND (0.33)		ND (0.33)		ND (0.33)		ND (0.33)		ND (0.33)		ND (0.33)		ND (0.33)	
Vinyl chloride	1	ND (0.41)		-		ND (0.41)		ND (0.41)		ND (0.41)		ND (0.41)		ND (0.41)		ND (0.41)		ND (0.41)		ND (0.41)		ND (0.41)		ND (0.41)		ND (0.41)	
m,p-Xylene	-	ND (0.40)		-		ND (0.40)		**1.3**		ND (0.40)		ND (0.40)		ND (0.40)		ND (0.40)		ND (0.40)		ND (0.40)		ND (0.40)		ND (0.40)		ND (0.40)	
o-Xylene	-	ND (0.19)		-		ND (0.19)		**1.3**		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Xylene (total)	1000	ND (0.19)		-		ND (0.19)		**2.5**		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Total VOCs	-	0				2		23.09		34.93		0		0.63		0		0.95		0		48.92		2.46		0.48	
GC/MS Volatile TIC																											
Total TIC, Volatile	-	0		-		0		**175.9**	J	0		0		0		0		**150.9**	J	0		**7.7**	J	0		0	
Total Alkanes	-	0		-		0		0		0		0		0		0		0		0		0		0		0	
Metals Analysis																											
Chromium	70	<10		<10		-		-		-		-		-		-		-		-		-		-		-	
Iron	300	-		<100		-		-		-		-		-		-		-		-		-		-		-	
Sodium	50000	**228000**		-		-		-		-		-		-		-		-		-		-		-		-	
General Chemistry																											
Solids, Total Dissolved	500000	**1440000**		-		-		-		-		-		-		-		-		-		-		-		-	
Sulfate	250000	**394000**		-		-		-		-		-		-		-		-		-		-		-		-	

Notes:
ND, < Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria

Figures

FIGURE 1

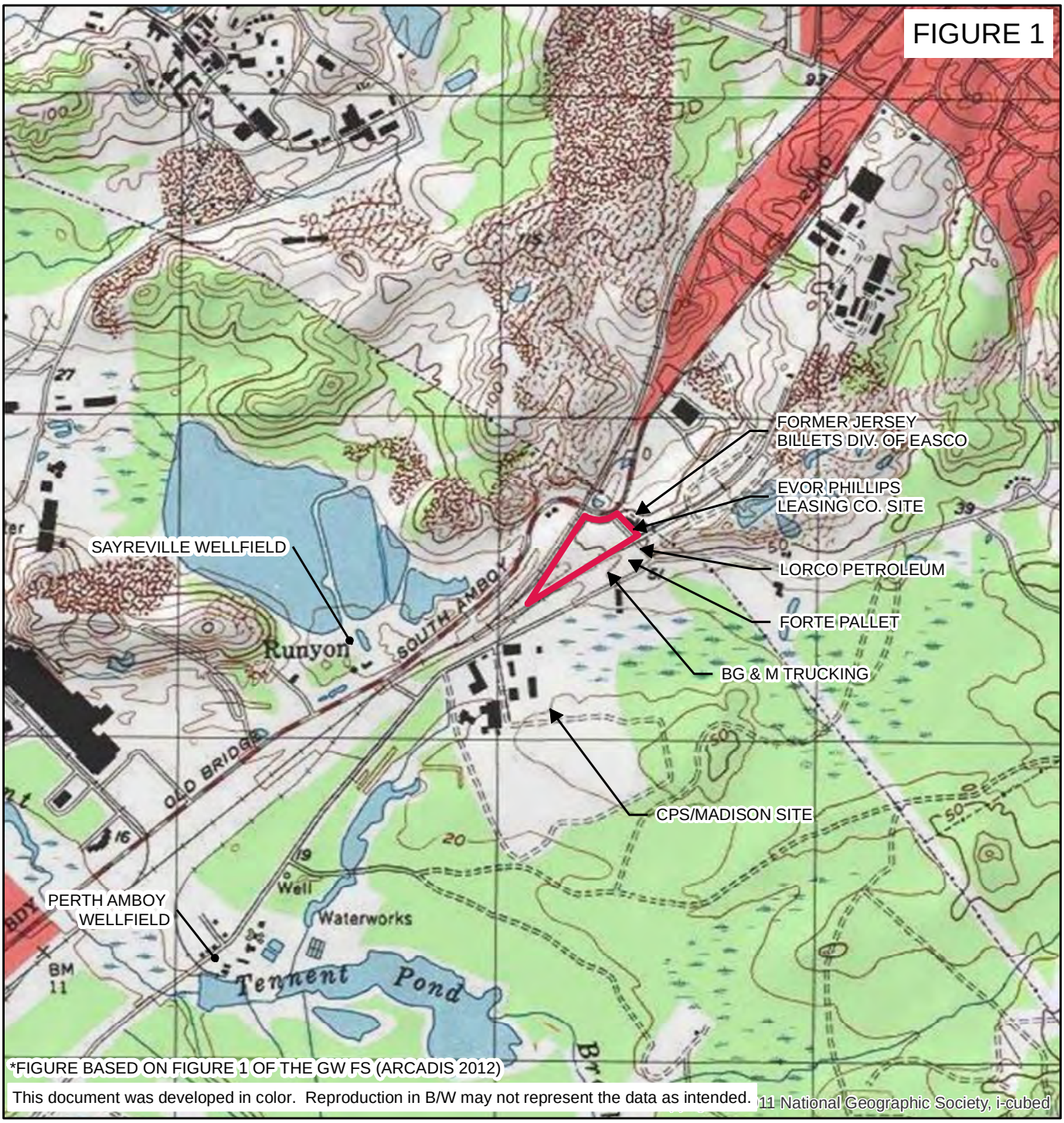
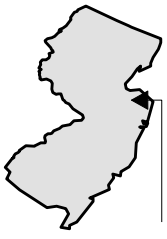


*FIGURE BASED ON FIGURE 1 OF THE GW FS (ARCADIS 2012)

This document was developed in color. Reproduction in B/W may not represent the data as intended.

ADAPTED FROM: SOUTH AMBOY, NEW JERSEY USGS QUADRANGLE U.S.G.S 7.5 MIN. QUAD

EVOR PHILLIPS LEASING COMPANY SUPERFUND SITE OLD BRIDGE, NEW JERSEY



MAP LOCATION

N

SITE LOCATION

0 1,000 2,000 4,000 6,000 8,000

Feet

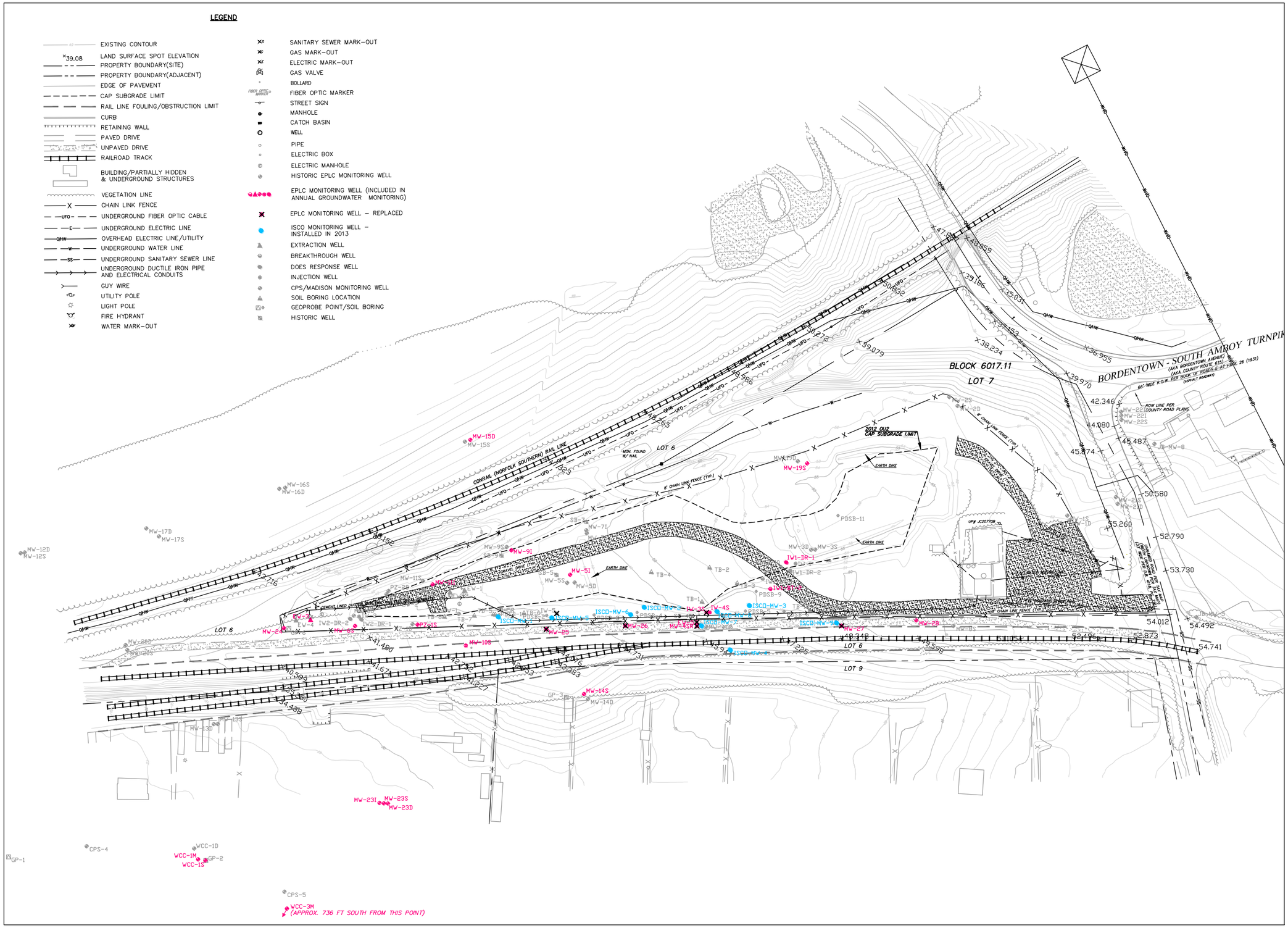
FILE NO. 19726.51308
SEPTEMBER 2014

1:24,000

O'BRIEN & GERE

SAVED: 9/8/14 2:33 PM

FIGURE 2



NOTES:

1. RAIL LINE FOULING/OBSTRUCTION LIMITS ARE 15' FROM CENTERLINE OF RAIL IN EACH DIRECTION.
2. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.
3. EXISTING GRADE ELEVATIONS AND LOCATIONS WERE OBTAINED BY MASER CONSULTING, PA ON AUGUST 10, 2012 & JANUARY 14, 2013.
4. WELL WCC-3M, LOCATED DOWNGRADIENT ON THE CPS/MADISON SITE AND NOT SHOWN, WAS INCLUDED IN BASELINE/ANNUAL SAMPLING.

EVOR PHILLIPS LEASING COMPANY SUPERFUND SITE OLD BRIDGE, NEW JERSEY

SITE PLAN WITH WELL LOCATIONS

1"=120' 0 120

FILE NO. 19726.51308-FIG2
SEPTEMBER 2014

O'BRIEN & GERE

I:\EVOR-PHILLIPS.19726\51308.EVOR-PHILLIPS-1\DOCS\DWG\SHEETS\ANNUAL GW REPORT - FIG 2 SITE PLAN.DWG

SAVED: 9/8/14 2:38 PM

I:\EVOR-PHILLIPS.19726\51308.EVOR-PHILLIPS-1\DOCS\DWG SHEETS\ANNUAL GW REPORT - FIG 3 ISCO LAYOUT & MONITORING PLAN.DWG

FIGURE 3

LEGEND

- RAIL LINE FOULING/OBSTRUCTION LIMIT
- ISCO TREATMENT AREAS
- INJECTION AND EXTRACTION WELLS (NOT CURRENTLY IN USE)
- EPLC MONITORING WELL (INCLUDED IN ANNUAL GROUNDWATER MONITORING) WITH SCREEN INTERVAL
- EPLC MONITORING WELL – REPLACED
- ISCO MONITORING WELL – INSTALLED IN 2013

CONRAIL (NORFOLK SOUTHERN) RAIL LINE

LOT 6

LOT 9

8' CHAIN LINK FENCE (TYP.)

GRAVEL DRIVE (TYP.)

EARTH DIKE

TREATMENT AREA 2
(APPROX 12,795 SQ FT)

TREATMENT AREA 1
(APPROX. 15,905 SQ FT)

NOTES:

1. RAIL LINE FOULING/OBSTRUCTION LIMITS ARE 15' FROM CENTERLINE OF RAIL IN EACH DIRECTION.
2. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.
3. EXISTING GRADE ELEVATIONS AND LOCATIONS WERE OBTAINED BY MASER CONSULTING, PA ON AUGUST 10, 2012 & JANUARY 14, 2013.
4. ALL MONITORING WELLS AND DEPTHS SHOWN WERE USED FOR ISCO BASELINE SAMPLING AND SOME WILL BE USED FOR PERFORMANCE MONITORING (WITH THE EXCEPTION OF IW-5, EW-1, EW-2, AND EW-5). WELLS MW-23S, MW-23I, MW-23D, WCC-1S WCC-1M, AND WCC-3M, LOCATED DOWNGRADIENT ON THE CPS/MADISON SITE AND NOT SHOWN, WERE INCLUDED IN BASELINE SAMPLING.

EVOR PHILLIPS LEASING COMPANY SUPERFUND SITE
OLD BRIDGE, NEW JERSEY

ISCO MONITORING PLAN

1"=60' 0 60

FILE NO. 19726.51308-FIG3
SEPTEMBER 2014

O'BRIEN & GERE

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I:\EVOR-PHILLIPS.19726\51308.EVOR-PHILLIPS-\DOCS\DWG\SHEETS\ANNUAL GW REPORT – FIG 4 GROUNDWATER CONTOURS.DWG

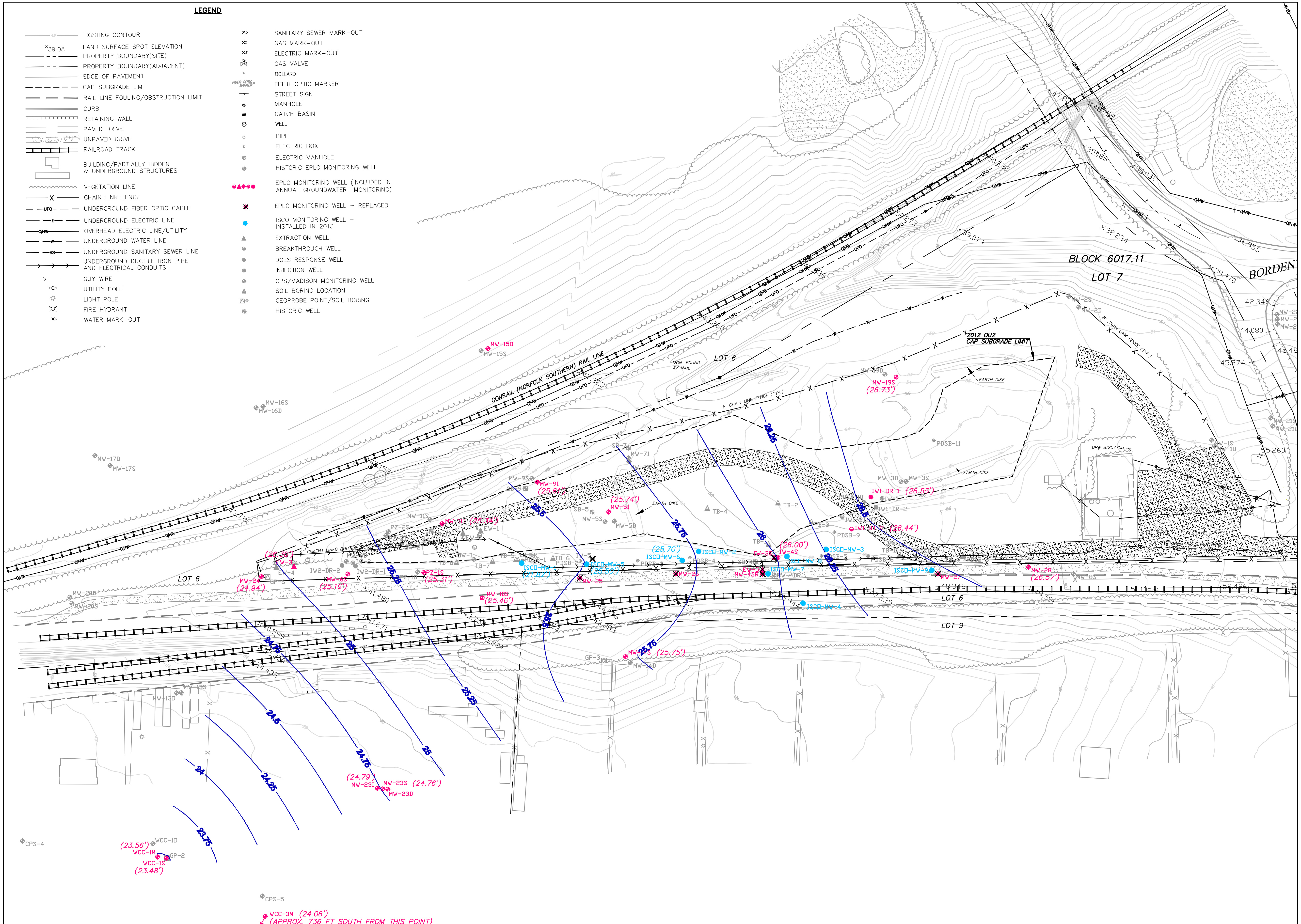

FIGURE 4

NOTES:

1. RAIL LINE FOULING/OBSTRUCTION LIMITS ARE 15' FROM CENTERLINE OF RAIL IN EACH DIRECTION.
2. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.
3. EXISTING GRADE ELEVATIONS AND LOCATIONS WERE OBTAINED BY MASER CONSULTING, PA ON AUGUST 10, 2012 & JANUARY 14, 2013.
4. WELL WCC-3M, LOCATED DOWNGRADIENT ON THE CPS/MADISON SITE AND NOT SHOWN, WAS INCLUDED IN BASELINE SAMPLING.
5. GROUNDWATER ELEVATIONS ARE SHOWN IN FEET MSL.
6. SIX WELLS WITHIN A LOCALIZED PERCHED GROUNDWATER ZONE (ISCO-MW-2, ISCO-MW-3, ISCO-MW-4, ISCO-MW-7, ISCO-MW-8, AND ISCO-MW-9) AND TWO DEEP WELLS (MW-15D AND MW-23D) WERE NOT CONSIDERED IN THE EVALUATION OF THE SHALLOW GROUNDWATER ELEVATION CONTOURS.

EVOR PHILLIPS LEASING COMPANY SUPERFUND SITE
OLD BRIDGE, NEW JERSEY

GROUNDWATER CONTOURS IN THE SHALLOW AQUIFER - JANUARY/FEBRUARY 2014

1"=100' 0 100

FILE NO. 19726.51308-FIG4
SEPTEMBER 2014

O'BRIEN & GERE

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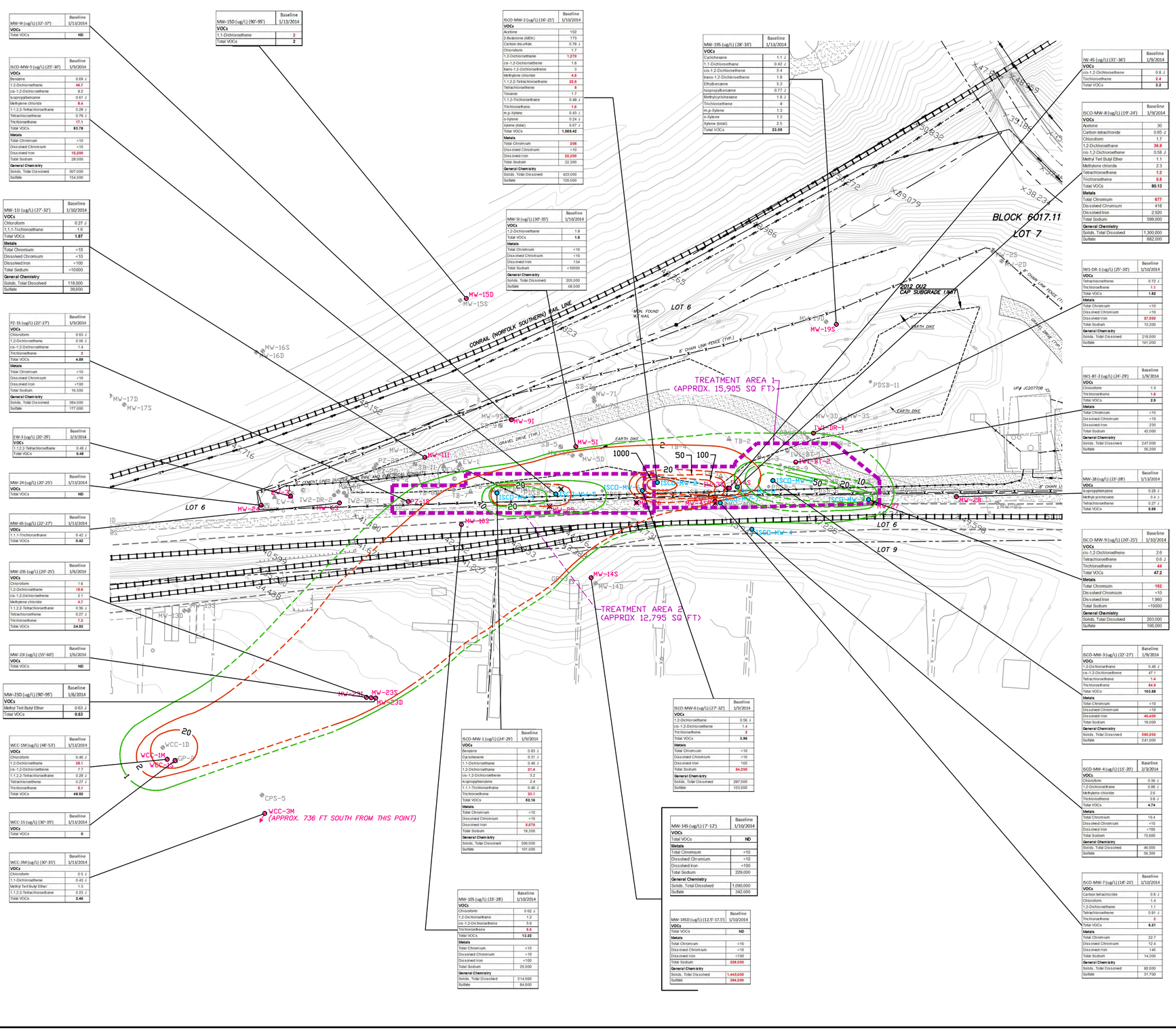
FIGURE 5



MW-9I (ug/L) (32'-37')	Baseline 1/13/2014
VOCs	
Total VOCs	**ND**

MW-15D (ug/L) (90'-95')	Baseline 1/13/2014
VOCs	
1,1-Dichloroethene	**2**
Total VOCs	**2**

ISCO-MW-2 (ug/L) (16'-21')	Baseline 1/10/2014
VOCs	
Acetone	102
2-Butanone (MEK)	173
Carbon disulfide	0.79 J
Chloroform	1.7
1,2-Dichloroethane	**1,270**
cis-1,2-Dichloroethene	1.8
trans-1,2-Dichloroethene	3
Methylene chloride	**4.5**
1,1,2,2-Tetrachloroethane	**22.6**
Tetrachloroethene	**5**
Toluene	1.7
1,1,2-Trichloroethane	0.49 J
Trichloroethene	**1.8**
m,p-Xylene	0.43 J
o-Xylene	0.24 J
Xylene (total)	0.67 J
Total VOCs	**1,689.42**
Metals	
Total Chromium	**298**
Dissolved Chromium	<10
Dissolved Iron	**22,200**
Total Sodium	22,300
General Chemistry	
Solids, Total Dissolved	433,000
Sulfate	120,000

MW-19S (ug/L) (28'-33')	Baseline 1/13/2014
VOCs	
Cyclohexane	1.1 J
1,1-Dichloroethane	0.42 J
cis-1,2-Dichloroethene	5.4
trans-1,2-Dichloroethene	1.8
Ethylbenzene	5.3
Isopropylbenzene	0.77 J
Methylcyclohexane	1.8 J
Trichloroethene	**4**
m,p-Xylene	1.3
o-Xylene	1.3
Xylene (total)	2.5
Total VOCs	**23.09**

MW-5I (ug/L) (30'-35')	Baseline 1/10/2014
VOCs	
1,2-Dichloroethene	1.9
Total VOCs	**1.9**
Metals	
Total Chromium	<10
Dissolved Chromium	<10
Dissolved Iron	134
Total Sodium	<10000
General Chemistry	
Solids, Total Dissolved	205,000
Sulfate	68,000

MW-11I (ug/L) (27'-32')	Baseline 1/10/2014
VOCs	
Chloroform	0.27 J
1,1,1-Trichloroethane	1.6
Total VOCs	**1.87**
Metals	
Total Chromium	<10
Dissolved Chromium	<10
Dissolved Iron	<100
Total Sodium	<10000
General Chemistry	
Solids, Total Dissolved	118,000
Sulfate	39,900

PZ-3S (ug/L) (22'-27')	Baseline 1/9/2014
VOCs	
Chloroform	0.63 J
1,2-Dichloroethane	0.56 J
cis-1,2-Dichloroethene	1.4
Trichloroethene	2
Total VOCs	**4.59**
Metals	
Total Chromium	<10
Dissolved Chromium	<10
Dissolved Iron	<100
Total Sodium	16,500
General Chemistry	
Solids, Total Dissolved	384,000
Sulfate	177,000

EW-3 (ug/L) (20'-25')	Baseline 2/3/2014
VOCs	
1,1,2,2-Tetrachloroethane	0.48 J
Total VOCs	**0.48**

MW-24 (ug/L) (20'-25')	Baseline 1/13/2014
VOCs	
Total VOCs	**ND**

MW-6B (ug/L) (22'-27')	Baseline 1/13/2014
VOCs	
1,1,1-Trichloroethane	0.42 J
Total VOCs	**0.42**

MW-23S (ug/L) (20'-25')	Baseline 1/6/2014
VOCs	
Chloroform	1.6
1,2-Dichloroethane	**18.8**
cis-1,2-Dichloroethene	5.1
Methylene chloride	**4.3**
1,1,2,2-Tetrachloroethane	0.36 J
Tetrachloroethene	0.27 J
Trichloroethene	**7.3**
Total VOCs	**34.93**

MW-23I (ug/L) (55'-60')	Baseline 1/6/2014
VOCs	
Total VOCs	**ND**

MW-23D (ug/L) (90'-95')	Baseline 1/6/2014
VOCs	
Methyl Tert Butyl Ether	0.63 J
Total VOCs	**0.63**

WCC-1M (ug/L) (48'-53')	Baseline 1/13/2014
VOCs	
Chloroform	0.46 J
1,2-Dichloroethane	**38.1**
cis-1,2-Dichloroethene	7.7
1,1,2,2-Tetrachloroethane	0.29 J
Tetrachloroethene	0.27 J
Trichloroethene	**5.1**
Total VOCs	**49.92**

WCC-1S (ug/L) (30'-35')	Baseline 1/13/2014
VOCs	
Total VOCs	**0**

WCC-3M (ug/L) (80'-35')	Baseline 1/13/2014
VOCs	
Chloroform	0.5 J
1,1-Dichloroethene	0.43 J
Methyl Tert Butyl Ether	1.3
1,1,2,2-Tetrachloroethene	0.23 J
Total VOCs	**2.46**

ISCO-MW-1 (ug/L) (24'-29')	Baseline 1/9/2014
VOCs	
Benzene	0.83 J
Cyclohexane	0.31 J
1,1-Dichloroethane	0.46 J
1,2-Dichloroethane	**21.4**
cis-1,2-Dichloroethene	3.2
Isopropylbenzene	2.4
1,1,1-Trichloroethane	0.46 J
Trichloroethene	**22.1**
Total VOCs	**52.16**
Metals	
Total Chromium	<10
Dissolved Chromium	<10
Dissolved Iron	**5,670**
Total Sodium	18,300
General Chemistry	
Solids, Total Dissolved	206,000
Sulfate	101,000

MW-10S (ug/L) (23'-28')	Baseline 1/10/2014
VOCs	
Chloroform	0.62 J
1,2-Dichloroethane	1.2
cis-1,2-Dichloroethene	5.9
Trichloroethene	**5.6**
Total VOCs	**13.22**
Metals	
Total Chromium	<10
Dissolved Chromium	<10
Dissolved Iron	<100
Total Sodium	20,500
General Chemistry	
Solids, Total Dissolved	214,000
Sulfate	84,600

ISCO-MW-6 (ug/L) (27'-32')	Baseline 1/9/2014
VOCs	
1,2-Dichloroethane	0.56 J
cis-1,2-Dichloroethene	1.4
Trichloroethene	2
Total VOCs	**3.96**
Metals	
Total Chromium	<10
Dissolved Chromium	<10
Dissolved Iron	165
Total Sodium	**64,200**
General Chemistry	
Solids, Total Dissolved	297,000
Sulfate	153,000

MW-14S (ug/L) (7'-12')	Baseline 1/10/2014
VOCs	
Total VOCs	**ND**
Metals	
Total Chromium	<10
Dissolved Chromium	<10
Dissolved Iron	<100
Total Sodium	229,000
General Chemistry	
Solids, Total Dissolved	1,090,000
Sulfate	342,000

MW-14SD (ug/L) (12.5'-17.5')	Baseline 1/10/2014
VOCs	
Total VOCs	**ND**
Metals	
Total Chromium	<10
Dissolved Chromium	<10
Dissolved Iron	<100
Total Sodium	**228,000**
General Chemistry	
Solids, Total Dissolved	**1,440,000**
Sulfate	**394,000**

IW-4S (ug/L) (31'-36')	Baseline 1/9/2014
VOCs	
cis-1,2-Dichloroethene	0.8 J
Trichloroethene	**2.4**
Total VOCs	**3.2**

ISCO-MW-8 (ug/L) (19'-24')	Baseline 1/9/2014
VOCs	
Acetone	30
Carbon tetrachloride	0.65 J
Chloroform	1.7
1,2-Dichloroethane	**36.8**
cis-1,2-Dichloroethene	0.58 J
Methyl Tert Butyl Ether	1.1
Methylene chloride	2.3
Tetrachloroethene	**1.2**
Trichloroethene	**5.8**
Total VOCs	**80.13**
Metals	
Total Chromium	**677**
Dissolved Chromium	418
Dissolved Iron	2,920
Total Sodium	599,000
General Chemistry	
Solids, Total Dissolved	1,300,000
Sulfate	682,000

IW1-DR-1 (ug/L) (25'-30')	Baseline 1/10/2014
VOCs	
Tetrachloroethene	0.72 J
Trichloroethene	**1.1**
Total VOCs	**1.82**
Metals	
Total Chromium	<10
Dissolved Chromium	<10
Dissolved Iron	**37,500**
Total Sodium	12,200
General Chemistry	
Solids, Total Dissolved	218,000
Sulfate	101,000

IW1-BT-2 (ug/L) (24'-29')	Baseline 1/9/2014
VOCs	
Chloroform	1.3
Trichloroethene	**1.6**
Total VOCs	**2.9**
Metals	
Total Chromium	<10
Dissolved Chromium	<10
Dissolved Iron	235
Total Sodium	42,000
General Chemistry	
Solids, Total Dissolved	247,000
Sulfate	56,200

MW-28 (ug/L) (23'-28')	Baseline 1/13/2014
VOCs	
Isopropylbenzene	0.26 J
Methylcyclohexane	0.4 J
Tetrachloroethene	0.27 J
Total VOCs	**0.96**

ISCO-MW-9 (ug/L) (20'-25')	Baseline 1/10/2014
VOCs	
cis-1,2-Dichloroethene	2.6
Tetrachloroethene	0.6 J
Trichloroethene	**44**
Total VOCs	**47.2**
Metals	
Total Chromium	**182**
Dissolved Chromium	<10
Dissolved Iron	1,960
Total Sodium	<10000
General Chemistry	
Solids, Total Dissolved	203,000
Sulfate	106,000

ISCO-MW-3 (ug/L) (22'-27')	Baseline 1/9/2014
VOCs	
1,2-Dichloroethane	0.48 J
cis-1,2-Dichloroethene	47.1
Tetrachloroethene	**1.4**
Trichloroethene	**84.8**
Total VOCs	**102.88**
Metals	
Total Chromium	<10
Dissolved Chromium	<10
Dissolved Iron	**40,400**
Total Sodium	18,000
General Chemistry	
Solids, Total Dissolved	**680,000**
Sulfate	241,000

ISCO-MW-4 (ug/L) (15'-20')	Baseline 2/3/2014
VOCs	
Chloroform	0.36 J
1,2-Dichloroethane	0.98 J
Methylene chloride	2.6
Trichloroethene	0.8 J
Total VOCs	**4.74**
Metals	
Total Chromium	16.4
Dissolved Chromium	<10
Dissolved Iron	<100
Total Sodium	15,600
General Chemistry	
Solids, Total Dissolved	86,000
Sulfate	56,500

ISCO-MW-7 (ug/L) (18'-23')	Baseline 1/10/2014
VOCs	
Carbon tetrachloride	0.8 J
Chloroform	1.4
1,2-Dichloroethane	1.1
Tetrachloroethene	0.91 J
Trichloroethene	2
Total VOCs	**6.21**
Metals	
Total Chromium	22.7
Dissolved Chromium	12.4
Dissolved Iron	145
Total Sodium	14,300
General Chemistry	
Solids, Total Dissolved	92,000
Sulfate	31,700

Groundwater Quality Criteria (ug/L)	
Volatile Organic Compounds (VOCs)	
1,1,1-Trichloroethane	30
1,1,2,2-Tetrachloroethane	1
1,1,2-Trichloroethane	3
1,1-Dichloroethane	50
1,1-Dichloroethene	1
1,2-Dichloroethane	2
Acetone	6000
2-Butanone	300
Benzene	1
Bromodichloromethane	1
Bromoform	4
Bromomethane	10
Carbon Disulfide	700
Carbon Tetrachloride	1
Chloroform	70
Chloromethane	NA
cis-1,2-Dichloroethene	70
Dibromochloromethane	1
Ethylbenzene	700
Methyl tert-butyl ether	70
Methylene Chloride	3
Tetrachloroethene	1
Toluene	600
trans-1,2-Dichloroethene	100
Trichloroethene	1
Vinyl Chloride	1
Xylene (total)	1000
Metals	
Chromium	70
Iron	300
Sodium	50,000
General Chemistry	
Solids, Total Dissolved	500,000
Sulfate	250,000

LEGEND

- RAIL LINE FOULING/ OBSTRUCTION LIMITS
- DELINEATION OF TRICHLOROETHENE (ug/L)
- DELINEATION OF 1,2–DICHLOROETHANE (ug/L)

NOTES:

1. THE GROUNDWATER IRM SYSTEM (COMPRISING OPERATING GROUNDWATER EXTRACTION WELLS EW–5 AND EW–1) WAS SHUT DOWN ON 11/25/13, IN PREPARATION FOR THE OU3 REMEDIAL ACTION WORK. THE IRM SYSTEM WILL REMAIN SHUT DOWN THROUGHOUT THE OU3 REMEDIAL ACTION IMPLEMENTATION AND ASSOCIATED GROUNDWATER MONITORING ACTIVITIES.
2. GROUNDWATER SAMPLES WERE COLLECTED IN JANUARY/FEBRUARY 2014 AS A PART OF THE ANNUAL GROUNDWATER SAMPLING EVENT AND TO DOCUMENT BASELINE GROUNDWATER CONDITIONS PRIOR TO THE COMMENCEMENT OF THE OU3 REMEDIAL ACTION WORK (COMMENCED IN FEBRUARY 2014). GROUNDWATER SAMPLES WERE COLLECTED VIA LOW–FLOW GROUNDWATER SAMPLING METHODS, IN ACCORDANCE WITH THE APPROVED REMEDIAL DESIGN REPORT/REMEDIAL ACTION WORK PLAN, OU3 – SITE GROUNDWATER (RDR/RAWP) DATED JANUARY 2014.

EVOR PHILLIPS LEASING COMPANY SUPERFUND SITE
OLD BRIDGE, NEW JERSEY

BASELINE / ANNUAL GROUNDWATER SAMPLING RESULTS JANUARY/FEBRUARY 2014

1"=60' 60 0 60

FILE NO. 19726.51308-FIG5
SEPTEMBER 2014

O'BRIEN & GERE

I:_EVOR–PHILLIPS.19726\51308.EVOR–PHILLIPS–1_DOCS_DWG_SHEETS\ANNUAL GW REPORT – FIG 5 BASELINE CHEMBOX.DWG

Attachments

Attachment 1:

Monitoring Well Boring Logs, Forms A & B

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201317413

MONITORING WELL RECORD

PROPERTY OWNER: SPIRAL METALS

Company/Organization: Spiral Metals

Address: 233 Wilshire Blvd Santa Monica, California 90401

WELL LOCATION: EVOI Phillips Leasing Company

Address: 3336 Bordentown Ave

County: Middlesex Municipality: Old Bridge Twp Lot: 7 Block: 6017.11

Easting (X): 540639 Northing (Y): 584216
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: November 26, 2013

DATE WELL COMPLETED: November 26, 2013

WELL USE: MONITORING

Other Use(s):

Local ID: ISCO-MW-1

WELL CONSTRUCTION

Total Depth Drilled (ft.): 29 Finished Well Depth (ft.): 29 Well Surface: Above Grade

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	29	10		
Casing	0	5	2	PVC	Sch 40
Screen	5	29	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	3	10	2	1	10	2
Gravel Pack	3	29	10	2	Morie #1		

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: Yes
Static Water Level: 20 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: 1 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 7720
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 29: Brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: John Brass, MONITORING LICENSE # 545089 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Evor Phillips Leasing Company

List all AKAs:

Street Address: 3336 Bordentown Road

Municipality: Old Bridge Township (Township, Borough or City)

County: Middlesex Zip Code: 08857

Program Interest (PI) Number(s): G000004877 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Spiral Metals
2. Well Location (Street Address) 233 Wilshire Blvd, Santa Monica, CA, 90401
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 7

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):..	E201317403
2. Site Well Number as shown on application or plans):	ISCO-MW-1
3. Well Completion Date:	November 26, 2013
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	2.53
5. Total Depth of Well to the nearest ½ foot:	31.53
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):.....	26.53
7. Screen Length (or length of open hole) in feet:	5
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	20.81
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Submersible
15. Length of Time well is developed/pumped or bailed (hours and minutes):	1:00

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: EVOI Phillips Leasing Company
List all AKAs:
Street Address: 3336 Bordentown Avenue
Municipality: Townships of Old Bridge (Township, Borough or City)
County: Middlesex Zip Code: 08857
Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Spiral Metals
2. Well Location (Street Address): 3336 Bordentown Avenue
3. Well Location (Municipal Block and Lot) Block#: 6017.11 Lot #: 7

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201317413
2. Site Well Number (As shown on application or plans): ISCO-MW-1
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40° 26' 13.91" Longitude: West 74° 19' 32.55"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 584,218 feet East 540,638 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 46.23
   Elevation Top of Outer casing: 46.44 Elevation of ground: 43.7
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on NGS Base Stations NJTP AND NJNT.
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: R. E. V Date: 02-12-14
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201317414

MONITORING WELL RECORD

PROPERTY OWNER: SPIRAL METALS

Company/Organization: Spiral Metals

Address: 233 Wilshire Blvd Santa Monica, California 90401

WELL LOCATION: EVOI Phillips Leasing Company

Address: 3336 Bordentown Ave

County: Middlesex Municipality: Old Bridge Twp Lot: 7 Block: 6017.11

Easting (X): 540793 Northing (Y): 584315
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: November 27, 2013

DATE WELL COMPLETED: November 27, 2013

WELL USE: MONITORING

Other Use(s):

Local ID: ISCO-MW-2

WELL CONSTRUCTION

Total Depth Drilled (ft.): 21 Finished Well Depth (ft.): 21 Well Surface: Above Grade

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	21	10		
Casing	0	16	2	PVC	Sch 40
Screen	16	21	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	14	10	2	3	47	4
Gravel Pack	14	21	10	2	Morie #1		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: Yes
Static Water Level: 20 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: 1 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 7720
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 21: Brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: John Brass, MONITORING LICENSE # 545089 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Evor Phillips Leasing Company

List all AKAs:

Street Address: 3336 Bordentown Road

Municipality: Old Bridge Township (Township, Borough or City)

County: Middlesex Zip Code: 08857

Program Interest (PI) Number(s): G000004877 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Spiral Metals
2. Well Location (Street Address) 233 Wilshire Blvd, Santa Monica, CA, 90401
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 7

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):..	E201317414
2. Site Well Number as shown on application or plans):	ISCO-MW-2
3. Well Completion Date:	November 27, 2013
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	2.42
5. Total Depth of Well to the nearest ½ foot:	23.42
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):.....	18.42
7. Screen Length (or length of open hole) in feet:	5
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	22.45
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Submersible
15. Length of Time well is developed/pumped or bailed (hours and minutes):	1:00

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: EVOI Phillips Leasing Company
List all AKAs:
Street Address: 3336 Bordentown Avenue
Municipality: Townships of Old Bridge (Township, Borough or City)
County: Middlesex Zip Code: 08857
Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Spiral Metals
2. Well Location (Street Address) 3336 Bordentown Avenue
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 7

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201317414
2. Site Well Number (As shown on application or plans): ISCO-MW-2
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40° 26' 14.91" Longitude: West 74° 19' 30.51"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 584,320 feet East 540,795 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 48.92
   Elevation Top of Outer casing: 49.18 Elevation of ground: 46.5
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on NGS Base Stations NJTP AND NJNT.
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: R. E. V Date: 02-12-14
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201317415

MONITORING WELL RECORD

PROPERTY OWNER: SPIRAL METALS

Company/Organization: Spiral Metals

Address: 233 Wilshire Blvd Santa Monica, California 90401

WELL LOCATION: EVOI Phillips Leasing Company

Address: 3336 Bordentown Ave

County: Middlesex Municipality: Old Bridge Twp Lot: 7 Block: 6017.11

Easting (X): 540910 Northing (Y): 584383
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: December 24, 2013

DATE WELL COMPLETED: December 24, 2013

WELL USE: MONITORING

Other Use(s):

Local ID: ISCO-MW-3

WELL CONSTRUCTION

Total Depth Drilled (ft.): 27 Finished Well Depth (ft.): 27 Well Surface: Above Grade

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	27	10		
Casing	0	22	2	PVC	Sch 40
Screen	22	27	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	20	10	2	20	470	32
Gravel Pack	20	27	10	2	Morie 31		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: Yes
Static Water Level: 26 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: .5 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 6620
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 27: Brown SM - Silty sands, sand-silt mixtures some fill material

ADDITIONAL INFORMATION:

Driller of Record: joseph abell, jr, MONITORING LICENSE # 0024431 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Evor Phillips Leasing Company

List all AKAs:

Street Address: 3336 Bordentown Road

Municipality: Old Bridge Township (Township, Borough or City)

County: Middlesex Zip Code: 08857

Program Interest (PI) Number(s): G000004877 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Spiral Metals
2. Well Location (Street Address) 233 Wilshire Blvd, Santa Monica, CA, 90401
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 7

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):..	E201317415
2. Site Well Number as shown on application or plans):	ISCO-MW-3
3. Well Completion Date:	December 24, 2013
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	2.78
5. Total Depth of Well to the nearest ½ foot:	29.78
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):.....	24.78
7. Screen Length (or length of open hole) in feet:	5
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	25.00
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Submersible
15. Length of Time well is developed/pumped or bailed (hours and minutes):	1:00

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: EVOI Phillips Leasing Company
List all AKAs:
Street Address: 3336 Bordentown Avenue
Municipality: Townships of Old Bridge (Township, Borough or City)
County: Middlesex Zip Code: 08857
Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Spiral Metals
2. Well Location (Street Address) 3336 Bordentown Avenue
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 7

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201317415
2. Site Well Number (As shown on application or plans): ISCO-MW-3
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40° 26' 15.58" Longitude: West 74° 19' 28.99"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 584,387 feet East 540,912 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 51.28
   Elevation Top of Outer casing: 51.50 Elevation of ground: 48.5
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on NGS Base Stations NJTP AND NJNT.
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: Date: 02-12-14
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201317409

MONITORING WELL RECORD

PROPERTY OWNER: UNNJRR PENN CENTRAL

Company/Organization: UNNJRR Penn Central

Address: 1700 Market St Philadelphia, Pennsylvania 19103

WELL LOCATION: EVOI Phillips Leasing Company

Address: Bordentown Ave

County: Middlesex Municipality: Old Bridge Twp Lot: 6 Block: 6017.11

Easting (X): 540912 Northing (Y): 584316
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: December 23, 2013

DATE WELL COMPLETED: December 23, 2013

WELL USE: MONITORING

Other Use(s):

Local ID: ISCO-MW-4

WELL CONSTRUCTION

Total Depth Drilled (ft.): 20 Finished Well Depth (ft.): 20 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	20	10		
Casing	0	15	2	PVC	Sch 40
Screen	15	20	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	13	10	2	15	282	24
Gravel Pack	13	20	10	2	Morie #1		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 18 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: .5 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 6620
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 20: Brown SM - Silty sands, sand-silt mixtures some fill material

ADDITIONAL INFORMATION:

Driller of Record: joseph abell, jr, MONITORING LICENSE # 0024431 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Evor Phillips Leasing Company

List all AKAs:

Street Address: 3336 Bordentown Road

Municipality: Old Bridge Township (Township, Borough or City)

County: Middlesex Zip Code: 08857

Program Interest (PI) Number(s): G000004877 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner UNNJRR Penn Central
2. Well Location (Street Address) 1700 Msrket St, Philadelphia, PA, 19103
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 6

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):..	E201317409
2. Site Well Number as shown on application or plans):	ISCO-MW-4
3. Well Completion Date:	December 23, 2013
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	-0.73
5. Total Depth of Well to the nearest ½ foot:	19.27
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):.....	14.27
7. Screen Length (or length of open hole) in feet:	5
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	19.83
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Submersible
15. Length of Time well is developed/pumped or bailed (hours and minutes):	1:00

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: EVOI Phillips Leasing Company
List all AKAs:
Street Address: 3336 Bordentown Avenue
Municipality: Townships of Old Bridge (Township, Borough or City)
County: Middlesex Zip Code: 08857
Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Spiral Metals
2. Well Location (Street Address): 3336 Bordentown Avenue
3. Well Location (Municipal Block and Lot) Block#: 6017.11 Lot #: 6

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201317409
2. Site Well Number (As shown on application or plans): ISCO-MW-4
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40° 26' 14.97" Longitude: West 74° 19' 28.92"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 584,326 feet East 540,918 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 44.67
   Elevation Top of Outer casing: 45.37 Elevation of ground: 45.4
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on NGS Base Stations NJTP AND NJNT.
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: Date: 02-12-14
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201317416

MONITORING WELL RECORD

PROPERTY OWNER: SPIRAL METALS

Company/Organization: Spiral Metals

Address: 233 Wilshire Blvd Santa Monica, California 90401

WELL LOCATION: EVOI Phillips Leasing Company

Address: 3336 Bordentown Ave

County: Middlesex Municipality: Old Bridge Twp Lot: 7 Block: 6017.11

Easting (X): 540700 Northing (Y): 584247
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: November 26, 2013

DATE WELL COMPLETED: November 26, 2013

WELL USE: MONITORING

Other Use(s):

Local ID: ISCO-MW-5

WELL CONSTRUCTION

Total Depth Drilled (ft.): 30 Finished Well Depth (ft.): 30 Well Surface: Above Grade

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	30	10		
Casing	0	25	2	PVC	Sch 40
Screen	25	30	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	23	10	2	3	47	4
Gravel Pack	23	30	10	2	Morie #1		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: Yes
Static Water Level: 20 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: 1 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 7720
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 30: Brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: John Brass, MONITORING LICENSE # 545089 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Evor Phillips Leasing Company

List all AKAs:

Street Address: 3336 Bordentown Road

Municipality: Old Bridge Township (Township, Borough or City)

County: Middlesex Zip Code: 08857

Program Interest (PI) Number(s): G000004877 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Penn Spiral Metals, LLC
2. Well Location (Street Address): 233 Wilshire Blvd, Santa Monica, CA, 90401
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 7

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):	E201317416
2. Site Well Number as shown on application or plans):	ISCO-MW-5
3. Well Completion Date:	November 26, 2013
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	2.71
5. Total Depth of Well to the nearest ½ foot:	32.71
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):	27.71
7. Screen Length (or length of open hole) in feet:	5
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	22.31
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Submersible
15. Length of Time well is developed/pumped or bailed (hours and minutes):	1:00

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: EVOI Phillips Leasing Company
List all AKAs:
Street Address: 3336 Bordentown Avenue
Municipality: Townships of Old Bridge (Township, Borough or City)
County: Middlesex Zip Code: 08857
Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Spiral Metals
2. Well Location (Street Address) 3336 Bordentown Avenue
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 7

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201317416
2. Site Well Number (As shown on application or plans): ISCO-MW-5
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40° 26' 14.23" Longitude: West 74° 19' 31.76"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 584,250 feet East 540,698 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 47.81
   Elevation Top of Outer casing: 48.04 Elevation of ground: 45.1
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on NGS Base Stations NJTP AND NJNT.
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

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SEAL

Professional Land Surveyor's Signature: Date: 02-12-14
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201317417

MONITORING WELL RECORD

PROPERTY OWNER: SPIRAL METALS

Company/Organization: Spiral Metals

Address: 233 Wilshire Blvd Santa Monica, California 90401

WELL LOCATION: EVOI Phillips Leasing Company

Address: 3336 Bordentown Ave

County: Middlesex Municipality: Old Bridge Twp Lot: 7 Block: 6017.11

Easting (X): 540787 Northing (Y): 584295
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: November 27, 2013

DATE WELL COMPLETED: November 27, 2013

WELL USE: MONITORING

Other Use(s):

Local ID: ISCO-MW-6

WELL CONSTRUCTION

Total Depth Drilled (ft.): 32 Finished Well Depth (ft.): 32 Well Surface: Above Grade

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	32	10		
Casing	0	27	2	PVC	Sch 40
Screen	27	32	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	25	10	2	3	47	4
Gravel Pack	25	32	10	2	Morie #1		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: Yes
Static Water Level: 20 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: 1 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 7720
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 32: Brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: John Brass, MONITORING LICENSE # 545089 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Evor Phillips Leasing Company

List all AKAs:

Street Address: 3336 Bordentown Road

Municipality: Old Bridge Township (Township, Borough or City)

County: Middlesex Zip Code: 08857

Program Interest (PI) Number(s): G000004877 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Penn Spiral Metals, LLC
2. Well Location (Street Address): 233 Wilshire Blvd, Santa Monica, CA, 90401
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 7

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):	E201317417
2. Site Well Number as shown on application or plans):	ISCO-MW-6
3. Well Completion Date:	November 27, 2013
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	2.68
5. Total Depth of Well to the nearest ½ foot:	34.68
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):	29.68
7. Screen Length (or length of open hole) in feet:	5
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	23.08
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Submersible
15. Length of Time well is developed/pumped or bailed (hours and minutes):	1:00

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: EVOI Phillips Leasing Company
List all AKAs:
Street Address: 3336 Bordentown Avenue
Municipality: Townships of Old Bridge (Township, Borough or City)
County: Middlesex Zip Code: 08857
Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Spiral Metals
2. Well Location (Street Address): 3336 Bordentown Avenue
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 7

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201317417
2. Site Well Number (As shown on application or plans): ISCO-MW-6
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40° 26' 14.75" Longitude: West 74° 19' 30.64"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 584,303 feet East 540,785 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 48.78
   Elevation Top of Outer casing: 49.02 Elevation of ground: 46.1
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on NGS Base Stations NJTP AND NJNT.
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: Date: 02-12-14
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201317410

MONITORING WELL RECORD

PROPERTY OWNER: UNNJRR PENN CENTRAL

Company/Organization: UNNJRR Penn Central

Address: 1700 Market St Philadelphia, Pennsylvania 19103

WELL LOCATION: EVOI Phillips Leasing Company

Address: Bordentown Ave

County: Middlesex Municipality: Old Bridge Twp Lot: 6 Block: 6017.11

Easting (X): 540856 Northing (Y): 584327
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: December 23, 2013

DATE WELL COMPLETED: December 23, 2013

WELL USE: MONITORING

Other Use(s):

Local ID: ISCO-MW-7

WELL CONSTRUCTION

Total Depth Drilled (ft.): 23 Finished Well Depth (ft.): 23 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	23	10		
Casing	0	18	2	PVC	Sch 40
Screen	18	23	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	16	10	2	15	282	24
Gravel Pack	16	23	10	2	Morie 31		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 18 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: .5 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 6620
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 23: Brown SM - Silty sands, sand-silt mixtures some fill material

ADDITIONAL INFORMATION:

Driller of Record: joseph abell, jr, MONITORING LICENSE # 0024431 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Evor Phillips Leasing Company

List all AKAs:

Street Address: 3336 Bordentown Road

Municipality: Old Bridge Township (Township, Borough or City)

County: Middlesex Zip Code: 08857

Program Interest (PI) Number(s): G000004877 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner UNNJRR Penn Central
2. Well Location (Street Address) 1700 Msrket St, Philadelphia, PA, 19103
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 6

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):..	E201317410
2. Site Well Number as shown on application or plans):	ISCO-MW-7
3. Well Completion Date:	December 23, 2013
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	-0.5
5. Total Depth of Well to the nearest ½ foot:	22.5
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):.....	17.5
7. Screen Length (or length of open hole) in feet:	5
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	19.70
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Submersible
15. Length of Time well is developed/pumped or bailed (hours and minutes):	1:00

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: EVOI Phillips Leasing Company
List all AKAs:
Street Address: 3336 Bordentown Avenue
Municipality: Townships of Old Bridge (Township, Borough or City)
County: Middlesex Zip Code: 08857
Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Spiral Metals
2. Well Location (Street Address) 3336 Bordentown Avenue
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 6

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201317410
2. Site Well Number (As shown on application or plans): ISCO-MW-7
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40° 26' 15.06" Longitude: West 74° 19' 29.53"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 584,335 feet East 540,871 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 46.30
   Elevation Top of Outer casing: 46.83 Elevation of ground: 46.8
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on NGS Base Stations NJTP AND NJNT.
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: Date: 02-12-14
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201317418

MONITORING WELL RECORD

PROPERTY OWNER: SPIRAL METALS

Company/Organization: Spiral Metals

Address: 233 Wilshire Blvd Santa Monica, California 90401

WELL LOCATION: EVOI Phillips Leasing Company

Address: 3336 Bordentown Ave

County: Middlesex Municipality: Old Bridge Twp Lot: 7 Block: 6017.11

Easting (X): 540879 Northing (Y): 584359
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: November 27, 2013

DATE WELL COMPLETED: November 27, 2013

WELL USE: MONITORING

Other Use(s):

Local ID: ISCO-MW-8

WELL CONSTRUCTION

Total Depth Drilled (ft.): 24 Finished Well Depth (ft.): 24 Well Surface: Above Grade

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	24	10		
Casing	0	19	2	PVC	Sch 40
Screen	19	24	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	17	10	2	3	47	4
Gravel Pack	17	24	10	2	Morie #1		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: Yes
Static Water Level: 20 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: 1 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 7720
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 24: Brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: John Brass, MONITORING LICENSE # 545089 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Evor Phillips Leasing Company

List all AKAs:

Street Address: 3336 Bordentown Road

Municipality: Old Bridge Township (Township, Borough or City)

County: Middlesex Zip Code: 08857

Program Interest (PI) Number(s): G000004877 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Penn Spiral Metals, LLC
2. Well Location (Street Address): 233 Wilshire Blvd, Santa Monica, CA, 90401
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 6

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):	E201317418
2. Site Well Number as shown on application or plans):	ISCO-MW-8
3. Well Completion Date:	November 27, 2013
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	2.09
5. Total Depth of Well to the nearest ½ foot:	26.09
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):	21.09
7. Screen Length (or length of open hole) in feet:	5
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	22.90
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Submersible
15. Length of Time well is developed/pumped or bailed (hours and minutes):	1:00

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: EVOI Phillips Leasing Company
List all AKAs:
Street Address: 3336 Bordentown Avenue
Municipality: Townships of Old Bridge (Township, Borough or City)
County: Middlesex Zip Code: 08857
Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Spiral Metals
2. Well Location (Street Address): 3336 Bordentown Avenue
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 7

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201317418
2. Site Well Number (As shown on application or plans): ISCO-MW-8
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40° 26' 15.31" Longitude: West 74° 19' 29.42"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 584,360 feet East 540,879 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 50.19
   Elevation Top of Outer casing: 50.43 Elevation of ground: 48.1
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on NGS Base Stations NJTP AND NJNT.
7. Significant observations and notes:

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SEAL

Professional Land Surveyor's Signature: Date: 02-12-14
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-03 PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201317411

MONITORING WELL RECORD

PROPERTY OWNER: UNNJRR PENN CENTRAL

Company/Organization: UNNJRR Penn Central

Address: 1700 Market St Philadelphia, Pennsylvania 19103

WELL LOCATION: EVOI Phillips Leasing Company

Address: Bordentown Ave

County: Middlesex Municipality: Old Bridge Twp Lot: 6 Block: 6017.11

Easting (X): 541019 Northing (Y): 584420
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: December 23, 2013

DATE WELL COMPLETED: December 23, 2013

WELL USE: MONITORING

Other Use(s):

Local ID: ISCO-MW-9

WELL CONSTRUCTION

Total Depth Drilled (ft.): 25 Finished Well Depth (ft.): 25 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	25	10		
Casing	0	20	2	PVC	Sch 40
Screen	20	25	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	18	10	2	20	376	32
Gravel Pack	18	25	10	2	Morie #1		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 23 ft. below land surface
Water Level Measure Tool: Tape
Well Development Period: .5 hrs.
Method of Development: Submersible
Pump Type:

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid:
Drill Rig: Geoprobe 6620
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 25: Brown SM - Silty sands, sand-silt mixtures some fill material

ADDITIONAL INFORMATION:

Driller of Record: joseph abell, jr, MONITORING LICENSE # 0024431 Company: ENVIRONMENTAL PROBING INVESTIGATION

New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Evor Phillips Leasing Company

List all AKAs:

Street Address: 3336 Bordentown Road

Municipality: Old Bridge Township (Township, Borough or City)

County: Middlesex Zip Code: 08857

Program Interest (PI) Number(s): G000004877 Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner UNNJRR Penn Central
2. Well Location (Street Address) 1700 Msrket St, Philadelphia, PA, 19103
3. Well Location (Municipal Block and Lot) Block# 6017.11 Lot # 6

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):..	E201317411
2. Site Well Number as shown on application or plans):	ISCO-MW-9
3. Well Completion Date:	December 23, 2013
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):	-0.31
5. Total Depth of Well to the nearest ½ foot:	24.69
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):.....	19.69
7. Screen Length (or length of open hole) in feet:	5
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	20.81
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Submersible
15. Length of Time well is developed/pumped or bailed (hours and minutes):	1:00

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: EVOI Phillips Leasing Company
List all AKAs:
Street Address: 3336 Bordentown Avenue
Municipality: Townships of Old Bridge (Township, Borough or City)
County: Middlesex Zip Code: 08857
Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner: Spiral Metals
2. Well Location (Street Address): 3336 Bordentown Avenue
3. Well Location (Municipal Block and Lot) Block#: 6017.11 Lot #: 6

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201317411
2. Site Well Number (As shown on application or plans): ISCO-MW-9
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 40° 26' 15.92" Longitude: West 74° 19' 27.59"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 584,422 feet East 541,020 feet
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 48.79
   Elevation Top of Outer casing: 49.12 Elevation of ground: 49.1
   Check One: ☒ NAVD 88 ☐ NGVD 29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   Elevations are referenced to N.A.V.D. 1988, Horizontal datum is referenced to N.J.S.P.C.S.–N.A.D. 1983 based on NGS Base Stations NJTP AND NJNT.
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

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SEAL

Professional Land Surveyor's Signature: Date: 02-12-14
Surveyor's Name: Robert E. Vargo License Number: GS43261
Firm Name: Vargo Associates Certificate Authorization #: 24GA28021200
Mailing Address: 2771 Delsea Drive
City/Town: Franklinville State: NJ Zip Code: 08322
Phone Number: 856-694-1716 Ext.: 110 Fax: 856-694-3102

O'BRIEN & GERE

BORING LOG

WELL NO. **ISCO-MW-1**

PROJECT: ISCO Wells
CLIENT: Evor Phillips
INSPECTOR: Chris Del Monico

SHEET 1 OF 1
JOB NO. 50288

DRILLING CONTRACTOR: Environmental Probing Investigations, Inc.
DRILLER: John Brass
PURPOSE: ISCO Monitoring
DRILLING METHOD: Direct Push, HSA
DRILL RIG TYPE: Geoprobe 7720

GROUND ELEV.
DATUM
DATE STARTED 11/26/2013
DATE FINISHED 11/26/2013

	SAMPLE	CORE	CASING
TYPE	GM	MC	---
DIA.	2"	2.5"	---

DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
0				Direct Drilled, not sampled			Direct Drilled			
10				10.0						
12	GM-1	NA (NA)	5.0'/ 4.1'	Yellow/white fine SAND, dry.		SW	Sand			
14				14.0						
				Yellow/ brown CLAY, dry.		CL				
15				15.0						
16	GM-2	NA (NA)	5.0'/ 5.0'	Light brown CLAY, dry.		CL	Clay			
19.5										
20	GM-3	NA (NA)	5.0'/ 5.0'	Yellow/orange fine SAND, wet at 20 feet below grade.		SW	Sand			
26	GM-4	NA (NA)	5.0'/ 5.0'							
30				30.0						
				End of Borehole at 30.0'.						
32										
34										

Notes: 2" diameter PVC well screened 24-29' bg.

Report Name: NEW OBG BORING LOG Data Template: OBG GINT STD US.GDT

O'BRIEN & GERE

BORING LOG

WELL NO. **ISCO-MW-2**

PROJECT: ISCO Wells
CLIENT: Evor Phillips
INSPECTOR: Chris Del Monico

SHEET 1 OF 1

JOB NO. 50288

DRILLING CONTRACTOR: Environmental Probing Investigations, Inc.
DRILLER: John Brass
PURPOSE: ISCO Monitoring
DRILLING METHOD: Direct Push, HSA
DRILL RIG TYPE: Geoprobe 7720

GROUND ELEV.

DATUM

DATE STARTED 11/26/2013

DATE FINISHED 11/26/2013

	SAMPLE	CORE	CASING
TYPE	GM	MC	---
DIA.	2"	2.5"	---

DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
2				Direct Drilled, not sampled.			Direct Drilled			
4										
6										
8										
10				10.0						
12	GM-1	NA (NA)	5.0'/ 4.1'	Yellow/brown SILT, little fine sand, dry. 13.0		ML	Sandy Silt			
14				Yellow/brown fine SAND, little coarse ronded gravel, dry. 15.0		SP	Sand			
16				Yellow/white fine SAND, trace silt. 17.0		SP				
18	GM-2	NA (NA)	5.0'/ 4.1'	Yellow/orange SILT, little fine Sand. 18.0		ML	Silty Sand			
20				Orange/white fine SAND, little Silt, moist. 20.5		SP-SM	Sand			
22	GM-3	NA (NA)	2.5'/ 2.5'	Gray CLAY, trace organics. 22.5		CH	Clay			
24				End of Borehole at 22.5'.						
26										
28										
30										
32										
34										

Notes: 2" diameter PVC well screened 16-21' bg.

Report Name: NEW OBG BORING LOG Data Template: OBG GINT STD US.GDT

O'BRIEN & GERE

BORING LOG

WELL NO. **ISCO-MW-3**

PROJECT: ISCO Wells
CLIENT: Evor Phillips
INSPECTOR: Chris Del Monico

SHEET 1 OF 1

JOB NO. 50288

DRILLING CONTRACTOR: Environmental Probing Investigations, Inc.
DRILLER: John Brass
PURPOSE: ISCO Monitoring
DRILLING METHOD: Direct Push, HSA
DRILL RIG TYPE: Geoprobe 7720

GROUND ELEV.

DATUM

DATE STARTED 11/27/2013

DATE FINISHED 11/27/2013

	SAMPLE	CORE	CASING
TYPE	GM	MC	---
DIA.	2"	2.5"	---

DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
2				Direct-drilled, not sampled			Direct Drilled			
4										
6										
8										
10				10.0						
12	GM-1	NA (NA)	5.0'/ 4.3'	Yellow/orange SILT, trace fine sand. 13.0		ML	Sandy Silt			
14				Yellow/orange fine SAND, some Silt.		SP-SM	Silty Sand			
16	GM-2	NA (NA)	5.0'/ 3.9'							
18										
20										
22	GM-3	NA (NA)	5.0'/ 3.5'							
24				25.0						
26				Yellow/orange fine SAND, trace silt. 27.0		SP				
28	GM-4	NA (NA)	5.0'/ 3.2'	Grat CLAY, trace organics.		CH	Clay			
30				30.0						
32				End of Borehole at 30.0'.						
34										

Notes: 2" diameter PVC well screened 22-27' bg.

Report Name: NEW OBG BORING LOG Data Template: OBG GINT STD US.GDT

O'BRIEN & GERE

BORING LOG

WELL NO. **ISCO-MW-4**

PROJECT: ISCO Wells
CLIENT: Evor Phillips
INSPECTOR: Chris Del Monico

SHEET 1 OF 1

JOB NO. 50288

DRILLING CONTRACTOR: Environmental Probing Investigations, Inc.
DRILLER: Joe Able
PURPOSE: ISCO Monitoring
DRILLING METHOD: Direct Push, HSA
DRILL RIG TYPE: Geoprobe 7720

GROUND ELEV.

DATUM

DATE STARTED 12/23/2013

DATE FINISHED 12/23/2013

	SAMPLE	CORE	CASING
TYPE	GM	MC	---
DIA.	2"	2.5"	---

DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
2				Direct-drilled, not sampled.			Direct Drilled			
4										
6										
8										
10				10.0						
12	GM-1	NA (NA)	5.0'/ 3.0'	Yellow/white fine SAND, trace silt, dry.		SW	Sand			
14										
16				16.0						
18	GM-2	NA (NA)	5.0'/ 4.1'	Yellow/orange fine to medium SAND, some Silt, moist.		SP-SM	Silty Sand			
20				19.5						
22	GM-3	NA (NA)	5.0'/ 4.7'	White/gray CLAY, trace organics.		CH	Clay			
24				24.0						
26				Yellow/white fine to medium SAND, moist. 25.0		SP	Sand			
28				End of Borehole at 25.0'.						
30										
32										
34										

Notes: 2" diameter PVC well screened 15-20' bg.

Report Name: NEW OBG BORING LOG Data Template: OBG GINT STD US.GDT

O'BRIEN & GERE

BORING LOG

WELL NO. **ISCO-MW-5**

PROJECT: ISCO Wells
CLIENT: Evor Phillips
INSPECTOR: Chris Del Monico

SHEET 1 OF 1
JOB NO. 50288

DRILLING CONTRACTOR: Environmental Probing Investigations, Inc.
DRILLER: John Brass
PURPOSE: ISCO Monitoring
DRILLING METHOD: Direct Push, HSA
DRILL RIG TYPE: Geoprobe 7720

GROUND ELEV.
DATUM
DATE STARTED 11/26/2013
DATE FINISHED 11/26/2013

	SAMPLE	CORE	CASING
TYPE	GM	MC	---
DIA.	2"	2.5"	---

DEPTH (ft)	Sample Type	Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
0					Topsoil (0.5)						
2		GM-1	NA (NA)	5.0'/ 3.2'	Yellow fine SAND.		SW				
4					(5.0)						
6		GM-2	NA (NA)	5.0'/ 5.0'	Yellow/white fine SAND, dry.		SW	Sand			
8											
10		GM-3	NA (NA)	5.0'/ 3.5'							
12											
14					(15.0)						
16		GM-4	NA (NA)	5.0'/ 5.0'	Yellow/orange SILT, some fine Sand, moist. (15.5) Light brown CLAY, dry.		ML CH	Clay			
18											
20					(20.0)						
22		GM-5	NA (NA)	5.0'/ 3.1'	Yellow/orange fine SAND, trace silt, moist to wet. Wet at 25 feet.		SW	Sand			
24											
26		GM-6	NA (NA)	5.0'/ 3.6'							
28											
30					(30.0)						
32					End of Borehole at 30.0'.						
34											

Notes: 2" diameter PVC well screened 25-30' bg.

Report Name: NEW OBG BORING LOG Data Template: OBG GINT STD US.GDT

O'BRIEN & GERE

BORING LOG

WELL NO. **ISCO-MW-6**

PROJECT: ISCO Wells
CLIENT: Evor Phillips
INSPECTOR: Chris Del Monico

SHEET 1 OF 1
JOB NO. 50288

DRILLING CONTRACTOR: Environmental Probing Investigations, Inc.
DRILLER: John Brass
PURPOSE: ISCO Monitoring
DRILLING METHOD: Direct Push, HSA
DRILL RIG TYPE: Geoprobe 7720

GROUND ELEV.
DATUM
DATE STARTED 11/26/2013
DATE FINISHED 11/26/2013

	SAMPLE	CORE	CASING
TYPE	GM	MC	---
DIA.	2"	2.5"	---

DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
0				Direct drilled, not sampled			Direct Drilled			
10				10.0						
12	GM-1	NA (NA)	5.0'/ 3.0'	Yellow/berown SILT, little fine Sand.		ML	Silt			
14				12.5 Yellow/brown fine SAND, little coarse rounded gravel.		SW	Sand			
16	GM-2	NA (NA)	5.0'/ 3.6'	15.0 Yellow/brown fine SAND, trace silt, dry. 4 inch silt lense.		SW				
18				18.0 Light brown/gray SILT, dry.		ML	Silt			
20	GM-3	NA (NA)	5.0'/ 5.0'	20.0 Dark gray CLAY, dry, stiff.		CH	Clay			
26	GM-4	NA (NA)	2.5'/ 2.5'	26.0						
28				26.5 Yellow/orange SILT, little fine Sand.		ML	Sand			
30				27.5 Yellow/orange fine SAND, little silt.		SW-SM				
32				End of Borehole at 27.5'.						
34										

Notes: 2" diameter PVC well screened 27-32' bg.

Report Name: NEW OBG BORING LOG Data Template: OBG GINT STD US.GDT

O'BRIEN & GERE

BORING LOG

WELL NO. **ISCO-MW-7**

PROJECT: ISCO Wells
CLIENT: Evor Phillips
INSPECTOR: Chris Del Monico

SHEET 1 OF 1
JOB NO. 50288

DRILLING CONTRACTOR: Environmental Probing Investigations, Inc.
DRILLER: Joe Able
PURPOSE: ISCO Monitoring
DRILLING METHOD: Direct Push, HSA
DRILL RIG TYPE: Geoprobe 7720

GROUND ELEV.
DATUM
DATE STARTED 12/23/2013
DATE FINISHED 12/23/2013

	SAMPLE	CORE	CASING
TYPE	GM	MC	---
DIA.	2"	2.5"	---

DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
0				Direct drilled, not sampled.			Direct Drilled			
10				10.0						
12	GM-1	NA (NA)	5.0'/ 4.2'	White fine SAND, trace silt, dry.		SW	Sand			
15				15.5						
16	GM-2	NA (NA)	5.0'/ 4.8'	Yellow/orange fine to medium SAND, some Silt, moist to wet.		SP-SM	Silty Sand			
20	GM-3	NA (NA)	3.0'/ 3.0'							
22				22.5						
23				23.0 White CLAY, trace organics.		CH	Clay			
24				End of Borehole at 23.0'.						

Notes: 2" diameter PVC well screened 18-23' bg.

Report Name: NEW OBG BORING LOG Data Template: OBG GINT STD US.GDT

O'BRIEN & GERE

BORING LOG

WELL NO. **ISCO-MW-8**

PROJECT: ISCO Wells
CLIENT: Evor Phillips
INSPECTOR: Chris Del Monico

SHEET 1 OF 1

JOB NO. 50288

DRILLING CONTRACTOR: Environmental Probing Investigations, Inc.
DRILLER: John Brass
PURPOSE: ISCO Monitoring
DRILLING METHOD: Direct Push, HSA
DRILL RIG TYPE: Geoprobe 7720

GROUND ELEV.

DATUM

DATE STARTED 11/27/2013

DATE FINISHED 11/27/2013

	SAMPLE	CORE	CASING
TYPE	GM	MC	---
DIA.	2"	2.5"	---

DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
2				Direct drilled, not sampled.			Direct Drilled			
4										
6										
8										
10				10.0						
12	GM-1	NA (NA)	5.0'/ 4.5'	Yellow/orange SILT, coarsening downward to a yellow/orange fine SAND, some Silt.		ML	Sandy Silt			
14				15.0						
16	GM-2	NA (NA)	5.0'/ 4.1'	Light yellow fine SAND, trace silt.		SW	Sand			
18				19.0						
20	GM-3	NA (NA)	5.0'/ 4.1'	Yellow/orange fine SAND, some Silt, moist to wet. Wet at 20 feet.		SW-SM	Silty Sand			
22										
24				24.0						
				Gray CLAY, dry. 25.0		CH	Clay			
26				End of Borehole at 25.0'.						
28										
30										
32										
34										

Notes: 2" diameter PVC well screened 19-24' bg.

Report Name: NEW OBG BORING LOG Data Template: OBG GINT STD US.GDT

O'BRIEN & GERE

BORING LOG

WELL NO. **ISCO-MW-9**

PROJECT: ISCO Wells
CLIENT: Evor Phillips
INSPECTOR: Chris Del Monico

SHEET 1 OF 1
JOB NO. 50288

DRILLING CONTRACTOR: Environmental Probing Investigations, Inc.
DRILLER: Joe Able
PURPOSE: ISCO Monitoring
DRILLING METHOD: Direct Push, HSA
DRILL RIG TYPE: Geoprobe 7720

GROUND ELEV.
DATUM
DATE STARTED 12/23/2013
DATE FINISHED 12/23/2013

	SAMPLE	CORE	CASING
TYPE	NR	MC	---
DIA.	2"	2.5"	---

DEPTH (ft)	Sample Type	Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Field Testing PID (ppm)	Well Graphic	REMARKS
2					Macrocore refusal at 9 feet (multiple attempts), well constructed based on log of former well MW-27.						
4	◯	NR-	NA (NA)	9.0'/ 0.0'			GC	Direct Drilled			
6											
8					9.0						
10					Refusal at 9.0'. End of Borehole at 9.0'.						
12											
14											
16											
18											
20											
22											
24											
26											
28											
30											
32											
34											

Notes: 2" diameter PVC well screened 20-25' bg.

Report Name: NEW OBG BORING LOG Data Template: OBG GINT STD US.GDT

Attachment 2:

Historical Groundwater Results

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-1S	MW-1S	MW-1S	MW-1S	MW-1S	MW-1S	MW-1S	MW-1S	MW-1S	MW-1S	MW-1S	MW-1S	MW-1S	MW-1S	MW-1S	MW-4SR	MW-4SR
Sample Date		6/29/2004	12/20/2004	6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/29/2010	12/16/2010	12/29/2011	6/29/2004	12/20/2004
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U
Bromoform	4	4 U	4 U	4 U	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U [1 U]	1 U	1 U	4 U	4 U
Bromomethane	10	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	2 U	2 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U [1 U]	1 U	1 U	**1.8 J**	**2.8**
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
Chloroethane	-	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
2-Chloroethyl vinyl ether	-	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
Chloroform	70	3.6 J	5 U	2.3 J	5 U	5 U	5 U	1.5	0.7 J	2.6 J	2.7 J	1 U	1 U	0.29 J [0.28 J]	1 U	1 U	5.3	5.9
Chloromethane	-	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
Dibromochloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
1,1-Dichloroethane	50	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
1,2-Dichloroethane	2	2 U	2 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U [1 U]	1 U	1 U	**54**	**49**
1,1-Dichloroethene	1	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U	1 U [1 U]	1 U	1 U	2 U	2 U
cis-1,2-Dichloroethene	70	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
trans-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
Ethylbenzene	700	4 U	4 U	4 U	4 U	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U [1 U]	1 U	1 U	4 U	4 U
Methyl tert-butyl ether (MTBE)	70	5 U	5 U	5 U	0.8 J	1.1 J	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
Methylene chloride	3	3 U	3 U	3 U	3 U	3 U	3 U	0.4 U	3 U	3 U	3 U	1 U	1 U	1 U [1 U]	1 U	1 U	1.2 J	0.8 J
t-Butyl Alcohol (TBA)	100	100 U	100 U	100 U	100 U	100 U	100 U	6.5 U	100 U	100 U	100 U	20 U	20 U	20 U [20 U]	20 U	20 U	100 U	100 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	0.8 J	1 U	1 U	1 U	1 U [1 U]	1 U	1 U	**38**	**42**
Tetrachloroethene	1	**1.1**	1 U	1.0	1 U	1 U	1 U	0.8	0.5 J	0.5 J	1 U	1 U	1 U	0.30 J [0.44 J]	1 U	1 U	**3.5**	**4**
Toluene	600	5 U	1.3 J	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	0.29 J	1 U [1 U]	1 U	1 U	5 U	0.6 J
1,1,1-Trichloroethane	30	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
1,1,2-Trichloroethane	3	3 U	3 U	3 U	3 U	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U [1 U]	1 U	1 U	3 U	3 U
Trichloroethene	1	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U	**5.4**	**7.2**
Trichlorofluoromethane	2000	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U [1 U]	1 U	1 U	5 U	5 U
Xylene (total)	1000	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U	3 U [3 U]	3 U	3 U	5 U	5 U
Total VOCs	-	4.7 J	1.3 J	3.3 J	0.8 J	1.1 J	ND	2.3	1.2 J	3.9 J	2.7 J	ND	0.29 J	0.59 J [0.72 J]	ND	ND	109 J	112 J

Notes:
U Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria
Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-4SR	MW-4SR	MW-4SR	MW-4SR	MW-4SR	MW-4SR	MW-4SR	MW-4SR	MW-4SR	MW-4SR	MW-4SR	MW-4SR	MW-4SR	MW-4SR	MW-4SR	MW-5I
Sample Date		6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/29/2010	12/16/2010	12/29/2011	7/10/2012	12/20/2012	6/29/2004
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																	
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U [5 U]	NA
Benzene	1	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	0.6 J
Bromodichloromethane	1	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	1 U
Bromoform	4	4 U	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA [NA]	4 U
Bromomethane	10	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	0.85 J [0.84 J]	NA	NA [NA]	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U [5 U]	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U [1 U]	NA
Carbon tetrachloride	1	**1.1 J**	**2.0**	**1.5 J**	**2.0**	0.6	0.9 J	**2.1**	**3.5**	**2.8**	**1.9**	0.47 J	1.0 [1.1]	1 U [0.84 J]	0.54 J	0.79 J [0.68 J]	2 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA [NA]	5 U
Chloroethane	-	5 U	5 U	5U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	5 U
2-Chloroethyl vinyl ether	-	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA [NA]	5 U
Chloroform	70	4.2 J	4.6 J	4.9 J	4.8 J	2.7	3.0 J	4.8 J	5.3	5.3	2.6	1.7	3.1 [2.9]	3.0 [3.0]	2.2	3 [2.7]	5 U
Chloromethane	-	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA [NA]	5 U
Dibromochloromethane	1	5 U	5 U	5 U	6 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	5 U
1,1-Dichloroethane	50	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	5 U
1,2-Dichloroethane	2	**81**	**69**	**63**	**46**	**95**	**110**	**80**	**32**	**28**	**5.2**	**30**	**72 [67]**	**37 [37]**	**45**	**130 [120]**	1.7 J
1,1-Dichloroethene	1	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	2 U
cis-1,2-Dichloroethene	70	0.7 J	5 U	0.5 J	5 U	1.2	0.6 J	5 U	5 U	1 U	1 U	1.1	0.36 J [0.38 J]	1 U [1 U]	0.49 J	0.35 J [0.37 J]	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	5 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA [NA]	1 U
cis-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA [NA]	5 U
trans-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA [NA]	5 U
Ethylbenzene	700	4 U	4 U	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	4 U
Methyl tert-butyl ether (MTBE)	70	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	5 U
Methylene chloride	3	3 U	3 U	0.6 J	0.6 J	1.1	3 U	3 U	0.6 J	1 U	0.24 J	1 U	0.61 J [0.93 J]	0.37 J [0.46 J]	1 U	1.1 [0.94 J]	3 U
t-Butyl Alcohol (TBA)	100	100 U	100 U	100 U	100 U	6.5 U	100 U	100 U	100 U	20 U	20 U	20 U	20 U [20 U]	20 U [20 U]	NA	NA [NA]	100 U
1,1,2,2-Tetrachloroethane	1	**38**	**36**	**45**	**64**	**20**	**29**	**42**	**4.8**	**28**	**2.7**	**9.7**	**10 [12]**	**13 [13]**	**9.1**	**20 [18]**	1 U
Tetrachloroethene	1	**2.4**	**2.9**	**3.2**	**4.5**	**1.7**	**2.5**	**3.1**	**3.1**	**4.9**	**1.6**	1.0	**2.1 [1.9]**	0.99 J [1.0]	0.84 J	**1.8 [1.5]**	1 U
Toluene	600	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	5 U
1,1,1-Trichloroethane	30	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	5 U
1,1,2-Trichloroethane	3	0.6 J	3 U	0.6 J	0.6 J	0.6	0.5 J	0.4 J	3 U	1 U	1 U	0.22 J	1 U [1 U]	0.15 J [0.23 J]	0.27 J	0.32 J [1 U]	3 U
Trichloroethene	1	**6.6**	**4.2**	**5.6**	**6.6**	**6.2**	**4.7**	**4.7**	**4.3**	**4.6**	**3.3**	**4.7**	**3.2 [3.2]**	1 U [1 U]	**3.4**	**3.1 [2.9]**	0.5 J
Trichlorofluoromethane	2000	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	3.1 [3.0]	NA	NA [NA]	5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	5 U
Xylene (total)	1000	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U [3 U]	5 U
Total VOCs	-	134.6 J	118.7 J	124.9 J	129.1 J	129.1 J	151.2 J	137.1 J	53.6	73.6 J	17.5 J	49.9 J	92.4 J [89.4 J]	58.5 J [59.4 J]	61.84 J	160.46 J [147.09 J]	2.8 J

Notes:
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Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-5I	MW-5I	MW-5I	MW-5I	MW-5I	MW-5I	MW-5I	MW-5I	MW-5I	MW-5I	MW-5I	MW-5I	MW-5I	MW-5I	MW-5I	MW-5I	MW-6S
Sample Date		12/20/2004	6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/29/2010	12/16/2010	12/29/2011	7/10/2012	12/20/2012	6/29/2004
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U [5 U]	NA
Benzene	1	1 U	1 U	1 U	1 U	1 U	0.2	1 U	1 U	1 U	1 U	0.22 J	1 U	1 U	0.15 J	0.14 J	0.13 J [0.14 J]	1 U
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U
Bromoform	4	4 U	4 U	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	NA	NA [NA]	4 U
Bromomethane	10	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA [NA]	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U [5 U]	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U [1 U]	NA
Carbon tetrachloride	1	2 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	2 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA [NA]	5 U
Chloroethane	-	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U
2-Chloroethyl vinyl ether	-	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA [NA]	5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	2 J
Chloromethane	-	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA [NA]	5 U
Dibromochloromethane	1	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U
1,1-Dichloroethane	50	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U
1,2-Dichloroethane	2	**2.1**	2 U	2 U	0.7 J	0.7 J	**2.9**	2 U	2 U	2 U	1.3	1.3	1.9	1.3	**2.4**	**1.5**	**1.7 [1.9]**	**32**
1,1-Dichloroethene	1	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	2 U
cis-1,2-Dichloroethene	70	5 U	5 U	5 U	5 U	5 U	0.6	5 U	5 U	5 U	1 U	1 U	1 U	1 U	0.38 J	1 U	1 U [1 U]	2.2 J
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA [NA]	1 U
cis-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA [NA]	5 U
trans-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA [NA]	5 U
Ethylbenzene	700	4 U	4 U	4 U	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	4 U
Methyl tert-butyl ether (MTBE)	70	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U
Methylene chloride	3	3 U	3 U	3 U	3 U	3 U	0.4 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	**27**
t-Butyl Alcohol (TBA)	100	100 U	100 U	100 U	100 U	100 U	6.5 U	100 U	100 U	100 U	20 U	20 U	20 U	20 U	20 U	NA	NA [NA]	100 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U
Tetrachloroethene	1	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U
Toluene	600	2.7 J	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1.3	1 U	1 U	1 U	1 U	1 U [1 U]	5 U
1,1,1-Trichloroethane	30	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U
1,1,2-Trichloroethane	3	3 U	3 U	3 U	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	3 U
Trichloroethene	1	1 U	1 U	1 U	1 U	1 U	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	**4.4**
Trichlorofluoromethane	2000	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA [NA]	5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U
Xylene (total)	1000	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U [3 U]	5 U
Total VOCs	-	4.8 J	ND	ND	0.7 J	0.7 J	4.1	ND	ND	ND	1.3	2.8 J	1.9	1.3	2.9 J	1.64 J	1.83 J [2.04 J]	67.6 J

Notes:
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Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-7I
Sample Date		12/20/2004	6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/30/2010	12/16/2010	12/29/2011	7/10/2012	12/20/2012	6/29/2004
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA
Benzene	1	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	0.14 J	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	1 U
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	0.66 J	1 U	1 U
Bromoform	4	4 U	4 U	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA	4 U
Bromomethane	10	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA
Carbon tetrachloride	1	2 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	2 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA	5 U
Chloroethane	-	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U
2-Chloroethyl vinyl ether	-	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	NA	5 U
Chloroform	70	2.1 J	2.4 J	2.0 J	1.8 J	1.8 J	1.3	0.9 J	0.9 J	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1.4	1 U	5 U
Chloromethane	-	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1.2	4.0	1 U [1 U]	1 U [1 U]	NA	NA	5 U
Dibromochloromethane	1	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U
1,1-Dichloroethane	50	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U
1,2-Dichloroethane	2	**29**	**35**	**32**	**28**	**44**	**24**	**20**	**25**	2 U	1 U	0.32 J	1.0	1 U [1 U]	1 U [1 U]	1 U	1 U	2 U
1,1-Dichloroethene	1	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	2 U
cis-1,2-Dichloroethene	70	2.2 J	3.5 J	8.9	13	**100**	18	17	12	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	0.6 J	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA	1 U
cis-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA	5 U
trans-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	NA	NA	5 U
Ethylbenzene	700	4 U	4 U	4 U	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U	0.29 J	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	4 U
Methyl tert-butyl ether (MTBE)	70	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U
Methylene chloride	3	**24**	**18**	**16**	**12**	**16**	**10**	**6.2**	**5.8**	3 U	1 U	0.26 J	0.71 J	1 U [1 U]	1 U [1 U]	1 U	1 U	3 U
t-Butyl Alcohol (TBA)	100	100 U	100 U	100 U	100 U	100 U	6.5 U	100 U	100 U	100 U	20 U	NA	20 U	20 U [20 U]	2.7 J [3.3 J]	NA	NA	100 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	0.6 J	1 U	**1.1**	0.4	0.4 J	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	1 U
Tetrachloroethene	1	1 U	1 U	1 U	1 U	1 U	0.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	0.44 J	0.25 J	1 U
Toluene	600	1.8 J	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1.7	1 U	1 U [1 U]	1 U [1 U]	0.7 J	1 U	5 U
1,1,1-Trichloroethane	30	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	0.18 J	1 U	5 U
1,1,2-Trichloroethane	3	3 U	3 U	3 U	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	3 U
Trichloroethene	1	**2.6**	**4.0**	**5.4**	**5.3**	**20**	**5.7**	**6.9**	**6.0**	1 U	1 U	0.26 J	1 U	1 U [1 U]	1 U [1 U]	0.2 J	0.49 J	1 U
Trichlorofluoromethane	2000	5 U	5 U	5 U	1.6 J	5 U	0.5	0.8 J	5 U	5 U	1 U	NA	1 U	1 U [1 U]	1 U [1 U]	NA	NA	5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U
Xylene (total)	1000	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	3 U	0.74 J	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U	5 U
Total VOCs	-	61.7 J	62.9 J	64.9 J	61.7 J	183.5 J	60.4	52.2 J	49.7 J	ND	ND	4.9 J	5.7 J	ND [ND]	2.7 J [3.3 J]	3.58 J	0.74 J	ND

Notes:
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-- Not Sampled
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Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-7I	MW-8S	MW-8S	MW-8S
Sample Date		12/20/2004	6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/29/2010	12/16/2010	12/29/2011	6/29/2004	12/20/2004	6/28/2005
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	4 U	4 U	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	4 U	4 U	4 U
Bromomethane	10	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	2 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Chloroethane	-	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
2-Chloroethyl vinyl ether	-	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Chloromethane	-	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Dibromochloromethane	1	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
1,1-Dichloroethane	50	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	0.9 J	5 U
1,2-Dichloroethane	2	2 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U
1,1-Dichloroethene	1	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	70	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Ethylbenzene	700	4 U	4 U	4 U	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	4 U	4 U	4 U
Methyl tert-butyl ether (MTBE)	70	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Methylene chloride	3	3 U	3 U	3 U	3 U	3 U	0.4 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	3 U
t-Butyl Alcohol (TBA)	100	100 U	100 U	100 U	100 U	100 U	6.5 U	100 U	100 U	100 U	20 U	20 U	20 U	20 U	20 U	100 U	100 U	100 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	1	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	1.6 J	5 U	5 U	3.1 J	5 U	0.3 U	0.4 J	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	1.8 J	0.4 J
1,1,1-Trichloroethane	30	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	3 U	3 U	3 U	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	3 U
Trichloroethene	1	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	2000	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Xylene (total)	1000	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U	3 U	3 U	3 U	5 U	1.5 J	0.9 J
Total VOCs	-	1.6 J	ND	ND	3.1 J	ND	ND	0.4 J	ND	ND	ND	ND	ND	ND	ND	ND	4.2 J	1.3 J

Notes:
U Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria
Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA	MW-8S	MW-8S	MW-8S	MW-8S	MW-8S	MW-8S	MW-8S	MW-8S	MW-8S	MW-8S	MW-8S	MW-8S	MW-9I	MW-9I	MW-9I	MW-9I	MW-9I
Sample Date	GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/29/2010	12/16/2010	12/29/2011	6/29/2004	12/20/2004	6/28/2005	12/21/2005	6/21/2006
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U [1 U]	0.5 J [1 U]	1 U	1 U
Bromodichloromethane	1	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U
Bromoform	4	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U [1 U]	4 U	4 U [4 U]	4 U [4 U]	4 U	4 U
Bromomethane	10	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U [1 U]	2 U	2 U [2 U]	2 U [2 U]	2 U	2 U
Chlorobenzene	50	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
Chloroethane	-	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
2-Chloroethyl vinyl ether	-	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	NA	NA	NA	NA	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
Chloroform	70	5 U	5 U	5 U	0.2 U	1.2 J	5 U	2.3 J	1 U	0.90 J	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
Chloromethane	-	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
Dibromochloromethane	1	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
1,1-Dichloroethane	50	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
1,2-Dichloroethane	2	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U [1 U]	**2.1**	0.9 J [0.8 J]	0.7 J [2 U]	2 U	2 U
1,1-Dichloroethene	1	2 U	2 U	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U [1 U]	2 U	2 U [2 U]	2 U [2 U]	2 U	2 U
cis-1,2-Dichloroethene	70	5 U	5 U	5 U	0.3 U	5 U	5 U	0.3 J	1 U	1 U	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
1,2-Dichloropropane	1	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U
cis-1,3-Dichloropropene	-	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
trans-1,3-Dichloropropene	-	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
Ethylbenzene	700	4 U	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U [1 U]	4 U	4 U [4 U]	4 U [4 U]	4 U	4 U
Methyl tert-butyl ether (MTBE)	70	5 U	0.6 J	5 U	0.3 U	5 U	5 U	5 U	1 U	NA	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
Methylene chloride	3	3 U	3 U	3 U	0.4 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U [1 U]	1.5 J	0.6 J [0.6 J]	3 U [3 U]	3 U	3 U
t-Butyl Alcohol (TBA)	100	100 U	100 U	100 U	6.5 U	100 U	100 U	100 U	20 U	NA	20 U	20 U	20 U [20 U]	100 U	100 U [100 U]	100 U [100 U]	100 U	100 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U
Tetrachloroethene	1	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U
Toluene	600	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	0.31 J	1 U	1 U	1 U [1 U]	5 U	2.4 J [2.3 J]	5 U [5 U]	5 U	5 U
1,1,1-Trichloroethane	30	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
1,1,2-Trichloroethane	3	3 U	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U [1 U]	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U
Trichloroethene	1	0.6 J	0.4 J	0.6 J	0.4 U	0.5 J	1 U	1 U	1 U	0.43 J	1 U	0.49 J	1 U [1 U]	0.9 J	1 U [1 U]	1 U [1 U]	1 U	1 U
Trichlorofluoromethane	2000	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	NA	NA	NA	NA	0.24 J [0.24 J]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
Vinyl chloride	1	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U [1 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
Xylene (total)	1000	1.1 J	1.7 J	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U	3 U	0.47 J	3 U [3 U]	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U
Total VOCs	-	1.7 J	2.7 J	0.6 J	ND	1.7 J	ND	2.6 J	ND	1.6 J	ND	0.96 J	0.24 J [0.24 J]	4.5 J	3.9 J [3.7 J]	1.2 J [ND]	ND	ND

Notes:
U Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria
Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-9I	MW-9I	MW-9I	MW-9I	MW-9I	MW-9I	MW-9I	MW-9I	MW-9I	MW-9I	MW-9I	MW-9I	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S
Sample Date		12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/29/2010	12/16/2010	12/29/2011	7/11/2012	12/20/2012	6/29/2004	12/20/2004	6/28/2005	12/21/2005	6/21/2006
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA
Benzene	1	1 U	**2.5**	1 U	1 U	1 U	1 U	0.22 J	1 U	1 U	1 U	0.3 J	0.31 J	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	1	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	NA	NA	4 U	4 U	4 U	4 U	4 U
Bromomethane	10	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	NA
Carbon tetrachloride	1	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.3 J**	0.9 J	2 U	0.9 J	2 U
Chlorobenzene	50	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Chloroethane	-	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethyl vinyl ether	-	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	0.3	5 U	0.3 J	0.3 J	1 U	0.21 J	0.26 J	1 U	1 U	0.17 J	0.15 J	8.5	2.3 J	1.1 J	2.6 J	1.1 J
Chloromethane	-	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	1	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	50	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	0.7 J	1.3	0.4 J	0.4 J	2 U	1 U	1 U	1.7	1 U	0.51 J	1.3	0.54 J	**3.6**	2.0	2 U	2 U	2 U
1,1-Dichloroethene	1	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	70	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	8.1	2.7 J	1.4 J	4.8 J	2.0 J
trans-1,2-Dichloroethene	100	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	1	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	-	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	700	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	4 U	4 U	4 U	4 U
Methyl tert-butyl ether (MTBE)	70	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1.1 J	5 U	5 U	5 U
Methylene chloride	3	3 U	0.4 U	3 U	3 U	0.3 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	3 U	3 U	3 U
t-Butyl Alcohol (TBA)	100	100 U	6.5 U	100 U	100 U	100 U	20 U	20 U	20 U	20 U	20 U	NA	NA	100 U	100 U	100 U	100 U	100 U
1,1,2,2-Tetrachloroethane	1	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.7 J	1 U	1 U	1 U
Tetrachloroethene	1	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	5 U	0.3 U	5 U	5 U	5 U	1 U	1.0	1 U	1 U	1 U	1 U	1 U	5 U	0.5 J	5 U	5 U	5 U
1,1,1-Trichloroethane	30	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.6 J	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	3 U	3 U	3 U
Trichloroethene	1	1 U	**1.2**	1 U	1 U	1 U	1 U	1 U	**1.4**	1 U	1 U	0.51 J	1 U	**3.3**	1.0	1 U	**1.1**	0.8 J
Trichlorofluoromethane	2000	5 U	0.4 U	5 U	5 U	5 U	1 U	0.43 J	1 U	1 U	0.27 J	NA	NA	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	0.22 J	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	1000	5 U	0.4 U	5 U	5 U	5 U	3 U	0.46 J	3 U	3 U	3 U	3 U	3 U	5 U	5 U	5 U	5 U	5 U
Total VOCs	-	0.7 J	5.3	0.4 J	0.7 J	0.6 J	ND	2.3 J	3.4 J	ND	1.0 J	2.28 J	1.0 J	25.4 J	11.2 J	2.5 J	9.4 J	3.9 J

Notes:
U Not Detected Above Detection Limits
-- Not Sampled
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Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I
Sample Date		12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/30/2010	12/16/2010	12/29/2011	7/11/2012	12/20/2012	6/29/2004	12/20/2004	6/28/2005	12/21/2005	6/21/2006
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA
Benzene	1	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.17 J	0.088 J	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	1	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.6 J	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	NA	NA	4 U	4 U	4 U	4 U	4 U
Bromomethane	10	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	NA
Carbon tetrachloride	1	2 U	0.3 U	**2.8**	2 U	0.7 J	1 U	1 U	1 U	0.84 J	1 U	1 U	0.29 J	2 U	2 U	2 U	2 U	2 U
Chlorobenzene	50	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Chloroethane	-	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethyl vinyl ether	-	5 U	0.2 U	5 U	5 U	5 U	1 U	NA	1 U	NA	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	1.3	6.0	5 U	4.2 J	1 U	0.51 J	0.26 J	3.9	0.29 J	1.4	1.2	5 U	5 U	5 U	5 U	5 U
Chloromethane	-	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	1	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.31 J	1 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	50	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	2 U	0.3 U	1.3 J	2 U	**2.3**	0.9 J	**16**	**2.9**	**6.2**	**13**	1 U	**1.4**	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethene	1	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	70	5 U	2.2	3 J	5 U	2.9 J	1 U	1.4	0.77 J	11	1.9	1 U	1.3	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	1	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	-	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	700	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	4 U	4 U	4 U	4 U
Methyl tert-butyl ether (MTBE)	70	5 U	0.3 U	5 U	5 U	5 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	3	3 U	0.4 U	0.3 J	3 U	3 U	1 U	0.56 J	1 U	0.86 J	0.41 J	1 U	1 U	3 U	3 U	3 U	3 U	3 U
t-Butyl Alcohol (TBA)	100	100 U	6.5 U	100 U	100 U	100 U	20 U	NA	20 U	20 U	20 U	NA	NA	100 U	100 U	100 U	100 U	100 U
1,1,2,2-Tetrachloroethane	1	1 U	0.4 U	**1.8**	1 U	1 U	1 U	1 U	1 U	0.25 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	1	1 U	0.4 U	0.6 J	1 U	1 U	1 U	0.22 J	1 U	0.39 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	0.8 J	5 U	5 U	5 U
1,1,1-Trichloroethane	30	5 U	0.4 U	5 U	5 U	0.4 J	1 U	0.32 J	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	3 U	3 U	3 U
Trichloroethene	1	1 U	**1.2**	**2.5**	1 U	**3.9**	0.48 J	**5.4**	**3.4**	**9.8**	1 U	0.12 J	1.8	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	2000	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	6.5	NA	NA	5 U	5 U	5 U	5 U	1.4 J
Vinyl chloride	1	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	1000	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	5 U	5 U	5 U	5 U	5 U
Total VOCs	-	ND	4.7	18.3 J	ND	14.4 J	1.4 J	24.4 J	7.3 J	33.2 J	22.1 J	2.6 J	6.08 J	ND	0.8 J	ND	ND	1.4 J

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Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-11I	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S
Sample Date		12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/29/2010	12/16/2010	12/29/2011	7/10/2012	12/20/2012	6/29/2004	12/21/2004	6/28/2005	12/21/2005	6/21/2006
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA
Benzene	1	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.5**	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	1	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	NA	NA	4 U	4 U	4 U	4 U	4 U
Bromomethane	10	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	NA
Carbon tetrachloride	1	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U
Chlorobenzene	50	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Chloroethane	-	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethyl vinyl ether	-	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	0.2 U	5 U	5 U	0.2 J	1 U	0.68 J	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	-	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	1	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	50	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	2 U	0.3 U	2 U	2 U	2 U	1 U	0.29 J	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethene	1	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	70	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	1	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	-	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	700	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	4 U	4 U	4 U	4 U
Methyl tert-butyl ether (MTBE)	70	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.7 J
Methylene chloride	3	3 U	0.4 U	3 U	3 U	3 U	**4.3**	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	3 U	3 U	3 U
t-Butyl Alcohol (TBA)	100	100 U	6.5 U	100 U	100 U	100 U	20 U	20 U	20 U	20 U	20 U	NA	NA	100 U	100 U	100 U	100 U	100 U
1,1,2,2-Tetrachloroethane	1	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	1	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	5 U	0.3 U	5 U	5 U	5 U	1 U	0.30 J	1 U	1 U	1 U	1 U	1 U	5 U	5 U	0.8 J	5 U	5 U
1,1,1-Trichloroethane	30	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	3 U	3 U	3 U
Trichloroethene	1	1 U	0.4 U	1 U	1 U	1 U	0.42 J	**2.0**	1 U	1 U	1 U	0.22 J	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	2000	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	1000	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	5 U	5 U	0.7 J	5 U	1.0 J
Total VOCs	-	ND	ND	ND	ND	0.2 J	4.7 J	3.3 J	ND	ND	ND	0.22 J	1.5	ND	ND	1.5 J	ND	1.7 J

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Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-13S	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S	MW-15D
Sample Date		12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	7/2/2009	12/23/2009	6/30/2010	12/16/2010	12/29/2011	7/6/2007	6/29/2010	12/16/2010	12/29/2011	8/16/2012	12/20/2012	12/20/2004
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33	5 U	NA
Benzene	1	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	0.23 J	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	0.088 J	**1.3**
Bromodichloromethane	1	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	NA	NA	4 U
Bromomethane	10	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	NA	NA	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.3 J	5 U	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA
Carbon tetrachloride	1	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.5	0.44 J	1 U	0.43 J	0.53 J	0.3 J	2 U
Chlorobenzene	50	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	NA	NA	5 U
Chloroethane	-	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	5 U
2-Chloroethyl vinyl ether	-	5 U	0.2 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	0.2 U	NA	NA	NA	NA	NA	5 U
Chloroform	70	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.6	0.55 J	0.49 J	0.47 J	0.66 J	0.54 J	5 U
Chloromethane	-	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	NA	NA	5 U
Dibromochloromethane	1	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.3 U	1 U	1 U	1 U	1 U	1 U	5 U
1,1-Dichloroethane	50	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.3 U	1 U	1 U	1 U	1 U	1 U	5 U
1,2-Dichloroethane	2	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.3 U	1 U	1 U	1 U	0.19 J	1 U	0.6 J
1,1-Dichloroethene	1	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	**5.1**
cis-1,2-Dichloroethene	70	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.3 U	1 U	1 U	1 U	1 U	1 U	5 U
trans-1,2-Dichloroethene	100	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	5 U
1,2-Dichloropropane	1	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	NA	NA	1 U
cis-1,3-Dichloropropene	-	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.1 U	1 U	1 U	1 U	NA	NA	5 U
trans-1,3-Dichloropropene	-	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	NA	NA	5 U
Ethylbenzene	700	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	4 U
Methyl tert-butyl ether (MTBE)	70	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.3 U	1 U	1 U	1 U	NA	1 U	5 U
Methylene chloride	3	3 U	0.4 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	3 U
t-Butyl Alcohol (TBA)	100	100 U	6.5 U	100 U	100 U	100 U	20 U	20 U	20 U	20 U	20 U	6.5 U	20 U	20 U	20 U	NA	NA	100 U
1,1,2,2-Tetrachloroethane	1	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	0.44 J	1 U	1 U
Tetrachloroethene	1	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	0.22 J	1 U
Toluene	600	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.3 U	1 U	1 U	0.19 J	1 U	1 U	2 J
1,1,1-Trichloroethane	30	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	5 U
1,1,2-Trichloroethane	3	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	3 U
Trichloroethene	1	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	0.8 J
Trichlorofluoromethane	2000	5 U	0.4 U	5 U	5 U	5 U	NA	NA	NA	NA	1 U	0.4 U	NA	NA	1 U	NA	NA	5 U
Vinyl chloride	1	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	2.5 J
Xylene (total)	1000	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U	3 U	3 U	3 U	0.4 U	3 U	3 U	3 U	3 U	3 U	5 U
Total VOCs	-	ND	ND	ND	ND	ND	ND	ND	0.23 J	ND	ND	1.1	0.99 J	0.49 J	1.09 J	38.12 J	1.15 J	12.3 J

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Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-15D	MW-19S	MW-19S
Sample Date	GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	7/1/2009	12/23/2009	6/30/2010	12/16/2010	12/29/2011	7/11/2012	12/20/2012	6/29/2004	12/20/2004
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA
Benzene	1	**4.3**	0.9 J	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.16 J	1 U	0.7 J
Bromodichloromethane	1	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	4 U	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	NA	NA	4 U	4 U
Bromomethane	10	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA
Carbon tetrachloride	1	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U
Chloroethane	-	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U
2-Chloroethyl vinyl ether	-	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	NA	NA	NA	5 U	5 U
Chloroform	70	5 U	5 U	5 U	5 U	0.3	0.3 J	0.4 J	0.4 J	0.41 J	0.33 J	0.42 J	0.47 J	0.29 J	0.25 J	0.27 J	5 U	5 U
Chloromethane	-	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U
Dibromochloromethane	1	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U
1,1-Dichloroethane	50	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.6 J	2.8 J
1,2-Dichloroethane	2	1.1 J	2 U	2 U	0.5 J	0.3	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.22 J	2 U	2 U
1,1-Dichloroethene	1	**7.6**	**4.1**	**3.0**	**2.2**	**2.2**	**1.2 J**	**1.1 J**	**1.1 J**	**1.8**	**2.2**	**1.1**	**1.4**	0.88 J	**1.4**	**2.9**	2 U	2 U
cis-1,2-Dichloroethene	70	0.9 J	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1.7	1 U	1 U	1 U	1 U	1 U	5 U	5 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U
cis-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U
trans-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U
Ethylbenzene	700	4 U	4 U	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.2 J	1 J
Methyl tert-butyl ether (MTBE)	70	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U
Methylene chloride	3	3 U	3 U	3 U	3 U	0.4 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U
t-Butyl Alcohol (TBA)	100	100 U	100 U	100 U	100 U	6.5 U	100 U	100 U	100 U	20 U	20 U	20 U	20 U	20 U	NA	NA	100 U	100 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	1	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	5 U	5 U	0.6 J	5 U	0.3 U	5 U	5 U	5 U	0.41 J	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1.9 J
1,1,1-Trichloroethane	30	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U
1,1,2-Trichloroethane	3	3 U	3 U	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U
Trichloroethene	1	**1.6**	0.7 J	0.6 J	0.5 J	0.6	1 U	1 U	1 U	0.29 J	0.69 J	0.25 J	1 U	1 U	0.24 J	0.59 J	**20**	**20**
Trichlorofluoromethane	2000	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	0.21 J	NA	NA	5 U	5 U
Vinyl chloride	1	**7.0**	0.5 J	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U
Xylene (total)	1000	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	2.9 J	2.5 J
Total VOCs	-	22.5 J	6.2 J	4.2 J	3.2 J	3.4	1.5 J	1.5 J	1.5 J	2.5 J	5.3 J	1.77 J	1.87 J	1.38 J	1.89 J	4.14 J	26.7 J	28.9 J

Notes:
U Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria
Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-19S	MW-20S	MW-20S
Sample Date	GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/29/2010	12/16/2010	12/29/2011	7/10/2012	12/20/2012	6/28/2005	12/21/2005
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA
Benzene	1	1 U	0.5 J	1 U	1 U	0.2 U	1 U	1 U	0.8 J	1 U	1 U	1 U	1 U	0.37 J	0.13 J	0.088 J	1 U	1 U [1 U]
Bromodichloromethane	1	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]
Bromoform	4	4 U	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	NA	NA	4 U	4 U [4 U]
Bromomethane	10	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U [5 U]
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA
Carbon tetrachloride	1	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U [2 U]
Chlorobenzene	50	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U [5 U]
Chloroethane	-	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	0.99 J	1 U	1 U	0.75 J	5 U	5 U [5 U]
2-Chloroethyl vinyl ether	-	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	NA	NA	NA	5 U	5 U [5 U]
Chloroform	70	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	0.3 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U [5 U]
Chloromethane	-	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U [5 U]
Dibromochloromethane	1	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U [5 U]
1,1-Dichloroethane	50	3.5 J	5 U	2.9 J	1.1 J	2.9	5 U	1.5 J	5 U	1.1	1 U	1.1	0.34 J	0.86 J	0.66 J	1 U	5 U	5 U [5 U]
1,2-Dichloroethane	2	2 U	2 U	2 U	2 U	0.2 U	2 U	2 U	0.3 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U [2 U]
1,1-Dichloroethene	1	2 U	**2.6**	2 U	2 U	0.5 U	2 U	2 U	**2.0**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U [2 U]
cis-1,2-Dichloroethene	70	1.2 J	5 U	39	1.0 J	6.0	31	2.6 J	0.5 J	3.1	0.23 J	2.8	16	2.7	1.6	9	5 U	5 U [5 U]
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U [5 U]
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U [1 U]
cis-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U [5 U]
trans-1,3-Dichloropropene	-	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U [5 U]
Ethylbenzene	700	0.4 J	4 U	2.0 J	4 U	0.4 U	0.7 J	0.5 J	4 U	1.0	1 U	0.77 J	2.0	1.6	0.97 J	2.7	4 U	4 U [4 U]
Methyl tert-butyl ether (MTBE)	70	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U [5 U]
Methylene chloride	3	3 U	3 U	3 U	3 U	0.4 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U [3 U]
t-Butyl Alcohol (TBA)	100	100 U	9.3 J	100 U	100 U	6.5 U	100 U	100 U	100 U	20 U	20 U	20 U	20 U	20 U	NA	NA	100 U	100 U [100 U]
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]
Tetrachloroethene	1	0.5 J	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	0.26 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]
Toluene	600	5 U	5 U	0.7 J	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	0.18 J	1 U	1 U	1 U	5 U	5 U [5 U]
1,1,1-Trichloroethane	30	5 U	5 U	5 U	0.7 J	0.4 U	5 U	5 U	1.0 J	1 U	0.85 J	1 U	1 U	1 U	1 U	1 U	5 U	5 U [5 U]
1,1,2-Trichloroethane	3	3 U	3 U	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U [3 U]
Trichloroethene	1	**15**	**3.3**	1 U	**4.0**	**3.3**	**1.1**	**3.4**	**3.8**	**2.1**	**1.7**	0.94 J	0.73 J	1 U	0.64 J	0.12 J	1 U	1 U [1 U]
Trichlorofluoromethane	2000	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	0.68 J	NA	NA	5 U	5 U [5 U]
Vinyl chloride	1	5 U	0.4 J	5 U	5 U	0.2 U	5 U	5 U	0.8 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U [5 U]
Xylene (total)	1000	0.5 J	5 U	5.5	5 U	0.4	1.6 J	0.8 J	5 U	2.4 J	3 U	2.0 J	6.4	4.0	1.9 J	2.3 J	5 U	5 U [5 U]
Total VOCs	-	21.1 J	16.1 J	50.1 J	6.8	12.6	34.4 J	8.8 J	9.5 J	9.7 J	3 J	7.61 J	26.6 J	10.2 J	5.9 J	14.96 J	ND	ND [ND]

Notes:
U Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria
Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA	MW-20S	MW-20S	MW-20S	MW-20S	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D
Sample Date	GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	6/21/2006	12/20/2006	7/6/2007	6/24/2008	12/20/2004	6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	7/1/2009	12/23/2009	6/30/2010	12/16/2010
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	1 U	1 U	0.2 U	1 U	1 U	1.0	0.8 J	0.8 J	1 U	1.0	0.4 J	0.3 J	1 U [1 U]	1 U	0.35 J	0.32 J	0.26 J
Bromodichloromethane	1	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U
Bromoform	4	4 U	4 U	0.2 U	4 U	4 U	4 U	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U [4 U]	1 U	1 U	1 U	1 U
Bromomethane	10	5 U	5 U	0.4 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	2 U	2 U	0.3 U	2 U	2 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U [2 U]	1 U	1 U	1 U	1 U
Chlorobenzene	50	5 U	5 U	0.2 U	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
Chloroethane	-	5 U	5 U	0.4 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	-	5 U	5 U	0.2 U	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
Chloroform	70	5 U	5 U	0.2 U	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
Chloromethane	-	5 U	5 U	0.4 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
Dibromochloromethane	1	5 U	5 U	0.3 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
1,1-Dichloroethane	50	5 U	5 U	0.3 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
1,2-Dichloroethane	2	2 U	2 U	0.3 U	2 U	2 U	2 U	2 U	2 U	2 U	0.3	2 U	2 U	2 U [2 U]	1 U	1 U	1 U	1 U
1,1-Dichloroethene	1	2 U	2 U	0.5 U	2 U	1.3 J	**1.4 J**	**1.9 J**	**1.5 J**	**1.8 J**	**1.7**	0.7 J	1.0	0.5 J [0.7 J]	0.85 J	0.25 J	0.82 J	1 U
cis-1,2-Dichloroethene	70	5 U	5 U	0.3 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	5 U	5 U	0.4 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	5 U	5 U	0.1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	-	5 U	5 U	0.2 U	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
Ethylbenzene	700	4 U	4 U	0.4 U	4 U	4 U	4 U	4 U	4 U	4 U	0.4 U	4 U	4 U	4 U [4 U]	1 U	1 U	1 U	1 U
Methyl tert-butyl ether (MTBE)	70	0.6 J	5 U	0.3 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
Methylene chloride	3	3 U	3 U	0.4 U	3 U	3 U	3 U	3 U	3 U	3 U	0.4 U	3 U	3 U	3 U [3 U]	1 U	1 U	1 U	1 U
t-Butyl Alcohol (TBA)	100	100 U	100 U	6.5 U	100 U	100 U	100 U	100 U	100 U	100 U	6.5 U	100 U	100 U	100 U [100 U]	20 U	20 U	20 U	20 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U
Tetrachloroethene	1	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U
Toluene	600	5 U	5 U	0.3 U	5 U	2.5 J	0.7 J	5 U	0.7 J	5 U	0.3 U	5 U	5 U	5 U [5 U]	1 U	1.1	1 U	1 U
1,1,1-Trichloroethane	30	5 U	5 U	0.4 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	3	3 U	3 U	0.2 U	3 U	3 U	3 U	3 U	3 U	3 U	0.2 U	3 U	3 U	3 U [3 U]	1 U	1 U	1 U	1 U
Trichloroethene	1	1 U	1 U	0.4 U	1 U	1 U	1 U	0.5 J	1 U	0.5 J	0.4 U	1 U	1 U	1 U [1 U]	0.24 J	1 U	1 U	1 U
Trichlorofluoromethane	2000	5 U	5 U	0.4 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U [5 U]	1 U	1 U	1 U	1 U
Vinyl chloride	1	5 U	5 U	0.2 U	5 U	5 U	**1.4 J**	**1.7 J**	**1.4 J**	5 U	**1.7**	5 U	0.8 J	5 U [5 U]	1 U	1 U	0.52 J	1 U
Xylene (total)	1000	5 U	5 U	0.4 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U [5 U]	3 U	3 U	3 U	3 U
Total VOCs	-	0.6 J	ND	ND	ND	3.8 J	4.5 J	4.9 J	4.4 J	2.3 J	5.0	1.1 J	2.1	0.5 J [0.7 J]	1.1 J	1.7 J	1.66 J	0.26 J

Notes:
U Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria
Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-20D	MW-21S	MW-21S	MW-21S	MW-21S	MW-21S	MW-21S	MW-21S	MW-21S	MW-21S	MW-21S	MW-21S	MW-21S	MW-21S	MW-22D	MW-22D	MW-22D
Sample Date		12/29/2011	6/29/2004	12/20/2004	6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	7/1/2009	12/23/2009	12/29/2011	12/20/2004	6/28/2005	12/21/2005
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.43 J	1 U	1 U	1 U	1 U	1 U	0.6 J	0.2 U	1 U	1 U	1 U	1 U	0.21 J	0.33 J	1 U	1 U	1 U
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	1 U	4 U	4 U	4 U	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	4 U	4 U	4 U
Bromomethane	10	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	1 U	2 U	2 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	2 U	2 U	2 U
Chlorobenzene	50	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
Chloroethane	-	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
2-Chloroethyl vinyl ether	-	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
Chloroform	70	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
Chloromethane	-	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
Dibromochloromethane	1	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
1,1-Dichloroethane	50	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
1,2-Dichloroethane	2	1 U	2 U	2 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	2 U	2 U	2 U
1,1-Dichloroethene	1	0.89 J	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U	1 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	70	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	-	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
Ethylbenzene	700	1 U	4 U	4 U	4 U	4 U	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U	4 U	4 U	4 U
Methyl tert-butyl ether (MTBE)	70	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
Methylene chloride	3	1 U	3 U	3 U	3 U	3 U	3 U	3 U	0.4 U	3 U	3 U	3 U	1 U	1 U	1 U	3 U	3 U	3 U
t-Butyl Alcohol (TBA)	100	20 U	100 U	100 U	100 U	100 U	100 U	100 U	6.5 U	100 U	100 U	100 U	20 U	20 U	20 U	100 U	100 U	100 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	0.3 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	0.13 J	1 U	1 J	5 U	5 U
1,1,1-Trichloroethane	30	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	1 U	3 U	3 U	3 U	3 U	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U	3 U	3 U	3 U
Trichloroethene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 J	1 U
Trichlorofluoromethane	2000	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
Vinyl chloride	1	0.64 J	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U
Xylene (total)	1000	3 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U	3 U	5 U	5 U	5 U
Total VOCs	-	1.96 J	ND	ND	ND	ND	ND	0.6 J	ND	0.3 J	ND	ND	ND	0.34 J	0.33 J	1 J	0.4 J	ND

Notes:
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-- Not Sampled
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Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22I	MW-22I	MW-22I	MW-22I	MW-22I	MW-22I
Sample Date		6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	7/1/2009	12/23/2009	6/30/2010	12/16/2010	12/29/2011	6/29/2004	12/20/2004	6/28/2005	12/21/2005	6/21/2006	12/20/2006
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	1 U	0.7 J	0.2 U	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U [1 U]	0.22 J [0.27 J]	1 U	0.24 J	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	1	1 U	1 U	0.2 U	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	4 U	4 U	0.2 U	4 U	4 U [4 U]	4 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	4 U	4 U	4 U	4 U	4 U	4 U
Bromomethane	10	5 U	5 U	0.4 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	2 U	2 U	0.3 U	2 U	2 U [2 U]	2 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U
Chlorobenzene	50	5 U	5 U	0.2 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	-	5 U	5 U	0.4 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloroethyl vinyl ether	-	5 U	5 U	0.2 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	5 U	0.2	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	-	5 U	5 U	0.4 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	1	5 U	5 U	0.3 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	50	5 U	5 U	0.3 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	2 U	2 U	0.3 U	2 U	2 U [2 U]	2 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethene	1	2 U	2 U	**1.2**	2 U	0.6 J [0.5 J]	2 U	1 U [1 U]	1 U [1 U]	0.2 J [1 U]	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	70	5 U	5 U	0.3 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	0.4 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	1	1 U	1 U	0.5 U	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	5 U	5 U	0.1 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	-	5 U	5 U	0.2 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	700	4 U	4 U	0.4 U	4 U	4 U [4 U]	4 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	4 U	4 U	4 U	4 U	4 U	4 U
Methyl tert-butyl ether (MTBE)	70	1.2 J	5 U	0.3 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	0.6 J	5 U
Methylene chloride	3	3 U	3 U	0.4 U	3 U	3 U [3 U]	3 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	1.4 J	3 U	3 U	3 U	3 U	3 U
t-Butyl Alcohol (TBA)	100	100 U	100 U	6.5 U	100 U	100 U [100 U]	100 U	20 U [20 U]	20 U [20 U]	20 U [20 U]	20 U	3.0 J	100 U	100 U	100 U	100 U	100 U	100 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	0.4 U	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	1	1 U	1 U	0.4 U	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	1.4 J	5 U	0.3 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	1.4 J	1.4 J	5 U	5 U	5 U
1,1,1-Trichloroethane	30	5 U	5 U	0.4 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	3 U	3 U	0.2 U	3 U	3 U [3 U]	3 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U
Trichloroethene	1	1 U	1 U	0.5	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	0.6 J	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	2000	5 U	5 U	0.4 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	5 U	5 U	0.2 U	5 U	5 U [5 U]	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	1000	1.2 J	5 U	0.4 U	5 U	5 U [5 U]	5 U	3 U [3 U]	3 U [3 U]	3 U [3 U]	3 U	3 U	5 U	5 U	0.6 J	5 U	5 U	5 U
Total VOCs	-	3.8 J	0.7 J	1.9	ND	0.6 J [0.5 J]	ND	ND [ND]	ND [ND]	0.42 J [0.27 J]	ND	3.24 J	2 J	1.4 J	2 J	ND	0.6 J	ND

Notes:
U Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
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Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA	MW-22I	MW-22I	MW-22I	MW-22I	MW-22I	MW-22I	MW-22I	MW-22I	MW-22I	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S
Sample Date	GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	7/6/2007	1/22/2008	6/24/2008	12/19/2008	7/1/2009	12/23/2009	6/30/2010	12/16/2010	12/29/2011	6/29/2004	12/20/2004	6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.2 U	1 U	1 U [1 U]	1 U	0.96 J	0.19 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	0.7 J [0.6 J]	0.2 U [0.2 U]	1 U [1 U]
Bromodichloromethane	1	0.2 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	0.2 U [0.2 U]	1 U [1 U]
Bromoform	4	0.2 U	4 U	4 U [4 U]	4 U	1 U	1 U	1 U	1 U	1 U	4 U	4 U	4 U	4 U	4 U [4 U]	4 U [4 U]	0.2 U [0.2 U]	4 U [4 U]
Bromomethane	10	0.4 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	0.3 U	2 U	2 U [2 U]	2 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U [2 U]	2 U [2 U]	0.3 U [0.3 U]	2 U [2 U]
Chlorobenzene	50	0.2 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.2 U [0.2 U]	5 U [5 U]
Chloroethane	-	0.4 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]
2-Chloroethyl vinyl ether	-	0.2 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.2 U [0.2 U]	5 U [5 U]
Chloroform	70	0.2 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.2 U [0.2 U]	5 U [0.3 J]
Chloromethane	-	0.4 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]
Dibromochloromethane	1	0.3 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.3 U [0.3 U]	5 U [5 U]
1,1-Dichloroethane	50	0.3 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.3 U [0.3 U]	5 U [5 U]
1,2-Dichloroethane	2	0.3 U	2 U	2 U [2 U]	2 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U [2 U]	2 U [2 U]	0.3 U [0.3 U]	2 U [2 U]
1,1-Dichloroethene	1	0.5 U	2 U	2 U [2 U]	2 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	0.7 J [2 U]	2 U [2 U]	0.5 U [0.5 U]	**2 U [1.2 J]**
cis-1,2-Dichloroethene	70	0.3 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.3 U [0.3 U]	5 U [5 U]
trans-1,2-Dichloroethene	100	0.4 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]
1,2-Dichloropropane	1	0.5 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	0.5 U [0.5 U]	1 U [1 U]
cis-1,3-Dichloropropene	-	0.1 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.1 U [0.1 U]	5 U [5 U]
trans-1,3-Dichloropropene	-	0.2 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.2 U [0.2 U]	5 U [5 U]
Ethylbenzene	700	0.4 U	4 U	4 U [4 U]	4 U	1 U	1 U	1 U	1 U	1 U	4 U	4 U	4 U	4 U	4 U [4 U]	4 U [4 U]	0.4 U [0.4 U]	4 U [4 U]
Methyl tert-butyl ether (MTBE)	70	0.3 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	0.8 J	2.0 J	0.8 J	5 U [0.6 J]	5 U [5 U]	0.3 U [0.3 U]	5 U [5 U]
Methylene chloride	3	0.4 U	3 U	3 U [3 U]	3 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	3 U	3 U	3 U [3 U]	3 U [3 U]	0.4 U [0.4 U]	3 U [0.3 J]
t-Butyl Alcohol (TBA)	100	6.5 U	100 U	100 U [100 U]	100 U	20 U	20 U	20 U	20 U	10 J	100 U	100 U	100 U	100 U	100 U [100 U]	100 U [100 U]	6.5 U [6.5 U]	100 U [100 U]
1,1,2,2-Tetrachloroethane	1	0.4 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	0.4 U [0.4 U]	1 U [1 U]
Tetrachloroethene	1	0.4 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	0.4 U [0.4 U]	1 U [1 U]
Toluene	600	0.3 U	5 U	5 U [5 U]	5 U	1 U	1.2	1 U	1 U	1 U	5 U	0.7 J	5 U	5 U	0.8 J [5 U]	5 U [5 U]	0.3 U [0.3 U]	5 U [5 U]
1,1,1-Trichloroethane	30	0.4 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]
1,1,2-Trichloroethane	3	0.2 U	3 U	3 U [3 U]	3 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	3 U	3 U	3 U [3 U]	3 U [3 U]	0.2 U [0.2 U]	3 U [3 U]
Trichloroethene	1	0.4 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	0.4 U [0.4 U]	1 U [1 U]
Trichlorofluoromethane	2000	0.4 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]
Vinyl chloride	1	0.2 U	5 U	5 U [5 U]	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.2 U [0.2 U]	5 U [5 U]
Xylene (total)	1000	0.4 U	5 U	5 U [5 U]	5 U	3 U	3 U	3 U	3 U	3 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]
Total VOCs	-	ND	ND	ND [ND]	ND	0.96 J	1.4 J	ND	ND	10.0 J	ND	1.5 J	2.0 J	0.8 J	1.5 J [0.6 J]	0.7 J [0.6 J]	ND	ND [1.8 J]

Notes:
U Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria
Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D
Sample Date		6/24/2008	12/19/2008	7/1/2009	12/23/2009	6/30/2010	12/16/2010	12/29/2011	12/21/2004	6/28/2005	6/21/2006	12/20/2006	7/6/2006	12/27/2007	6/24/2008	12/19/2008	7/2/2009	12/23/2009
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	1 U	1 U	1 U	0.40 J	1 U	1 U	1.3	1 U	1 U	1 U	**1.6**	0.2 U	0.3 J	1 U	1 U	1 U	1 U
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	4 U	4 U	1 U	1 U	1 U	1 U	1 U	4 U	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U
Bromomethane	10	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U
2- Butanone	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	2 U	2 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U
Chlorobenzene	50	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U
Chloroethane	-	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U
2-Chloroethyl vinyl ether	-	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U
Chloroform	70	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.7 J	5 U	5 U	5 U	0.3	5 U	5 U	5 U	1 U	0.21 J
Chloromethane	-	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U
Dibromochloromethane	1	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U
1,1-Dichloroethane	50	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U
1,2-Dichloroethane	2	2 U	2 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U
1,1-Dichloroethene	1	2 U	2 U	1 U	1 U	1 U	1 U	1 U	2.0	2 U	**3.5**	**2.3**	**1.2**	0.7 J	0.9 J	2 U	1 U	**1.1**
cis-1,2-Dichloroethene	70	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U
trans-1,2-Dichloroethene	100	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U
trans-1,3-Dichloropropene	-	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U
Ethylbenzene	700	4 U	4 U	1 U	1 U	1 U	1 U	1 U	4 U	4 U	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U
Methyl tert-butyl ether (MTBE)	70	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	0.5 J	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U
Methylene chloride	3	3 U	3 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	3 U	3 U	0.4 U	3 U	3 U	3 U	1 U	1 U
t-Butyl Alcohol (TBA)	100	100 U	100 U	20 U	20 U	20 U	20 U	20 U	100 U	100 U	100 U	100 U	6.5 U	100 U	100 U	100 U	20 U	20 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	5 U	5 U	1 U	1 U	1 U	1 U	1 U	0.9 J	0.4 J	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	0.64 J
1,1,1-Trichloroethane	30	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U
1,1,2-Trichloroethane	3	3 U	3 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U
Trichloroethene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.6 J	0.7 J	1 U	0.4 U	1 U	1 U	1 U	1 U	0.44 J
Trichlorofluoromethane	2000	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U
Vinyl chloride	1	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1.0 J	0.2 U	5 U	5 U	5 U	1 U	1 U
Xylene (total)	1000	5 U	5 U	3 U	3 U	3 U	3 U	3 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U
Total VOCs	-	ND	ND	ND	0.4 J	ND	ND	1.3	3.6 J	1 J	4.7 J	4.9 J	1.5	1.0 J	0.9 J	ND	ND	2.4 J

Notes:
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-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria
Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-23D	MW-23D	MW-23D	MW-23D	MW-23I	MW-23I	MW-23I	MW-23I	MW-23I	MW-23I	MW-23I	MW-23I	MW-23I	MW-23I	MW-23I	MW-23I
Sample Date		6/30/2010	12/16/2010	12/29/2011	12/20/2012	6/29/2004	12/21/2004	6/28/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	7/2/2009	12/23/2009	6/30/2010	12/16/2010
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	1 U	1 U	0.15 J	0.36 J	1 U	1 U	1 U [1 U]	1 U	1.0	0.2 U	1 U	1 U	1 U	1 U [1 U]	0.39 J [0.43 J]	1 U [1 U]	1 U [1 U]
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Bromoform	4	1 U	1 U	1 U	NA	4 U	4 U	4 U [4 U]	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Bromomethane	10	1 U	1 U	1 U	NA	5 U	5 U	5 U [5 U]	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
2- Butanone	300	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	1 U	1 U	1 U	1 U	2 U	2 U	2 U [2 U]	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Chlorobenzene	50	1 U	1 U	1 U	NA	5 U	5 U	5 U [5 U]	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Chloroethane	-	1 U	1 U	1 U	1 U	5 U	5 U	5 U [5 U]	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
2-Chloroethyl vinyl ether	-	1 U	1 U	1 U	NA	5 U	5 U	5 U [5 U]	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Chloroform	70	1 U	1 U	1 U	1 U	**4.8**	0.6 J	5 U [5 U]	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Chloromethane	-	1 U	1 U	1 U	NA	5 U	5 U	5 U [5 U]	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Dibromochloromethane	1	1 U	1 U	1 U	1 U	5 U	5 U	5 U [5 U]	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
1,1-Dichloroethane	50	1 U	1 U	1 U	1 U	5 U	5 U	5 U [5 U]	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
1,2-Dichloroethane	2	1 U	1 U	1 U	1 U	2 U	**2.6**	1.2 J [1.2 J]	0.6 J	2 U	0.3 U	2 U	0.8 J	2 U	1 U [1 U]	1 U [1 U]	0.26 J [0.30 J]	1 U [1 U]
1,1-Dichloroethene	1	0.40 J	1 U	0.49 J	1 U	0.7 J	1.3 J	1.0 J [1.0 J]	**1.1 J**	2 U	0.5 U	2 U	0.5 J	2 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
cis-1,2-Dichloroethene	70	1 U	1 U	1 U	1 U	0.9 J	5 U	5 U [5 U]	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
trans-1,2-Dichloroethene	100	1 U	1 U	1 U	1 U	5 U	5 U	5 U [5 U]	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
1,2-Dichloropropane	1	1 U	1 U	1 U	NA	1 U	1 U	1 U [1 U]	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
cis-1,3-Dichloropropene	-	1 U	1 U	1 U	NA	5 U	5 U	5 U [5 U]	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
trans-1,3-Dichloropropene	-	1 U	1 U	1 U	NA	5 U	5 U	5 U [5 U]	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Ethylbenzene	700	1 U	1 U	1 U	1 U	4 U	4 U	4 U [4 U]	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Methyl tert-butyl ether (MTBE)	70	1 U	1 U	1 U	1 U	5 U	5 U	5 U [5 U]	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Methylene chloride	3	1 U	1 U	1 U	1 U	2.4 J	3 U	3 U [3 U]	3 U	3 U	0.4 U	3 U	3 U	3 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
t-Butyl Alcohol (TBA)	100	20 U	20 U	20 U	NA	100 U	100 U	100 U [100 U]	100 U	100 U	6.5 U	100 U	100 U	14 J	20 U [20 U]	20 U [20 U]	20 U [20 U]	20 U [20 U]
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Tetrachloroethene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Toluene	600	1 U	1 U	1 U	1 U	5 U	2.5 J	0.5 J [0.5 J]	1.2 J	5 U	0.3 U	5 U	5 U	5 U	1 U [1 U]	0.23 J [0.35 J]	1 U [1 U]	1 U [1 U]
1,1,1-Trichloroethane	30	1 U	1 U	1 U	1 U	5 U	5 U	5 U [5 U]	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
1,1,2-Trichloroethane	3	1 U	1 U	1 U	1 U	3 U	3 U	3 U [3 U]	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Trichloroethene	1	1 U	1 U	1 U	1 U	**1.2**	0.9 J	0.9 J [1.0 J]	0.7 J	1 U	0.4 U	1 U	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Trichlorofluoromethane	2000	1 U	1 U	1 U	NA	5 U	5 U	5 U [5 U]	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Vinyl chloride	1	1 U	1 U	1 U	1 U	5 U	5 U	5 U [5 U]	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]
Xylene (total)	1000	3 U	3 U	3 U	3 U	5 U	5 U	5 U [5 U]	0.9 J	5 U	0.4 U	5 U	5 U	5 U	3 U [3 U]	3 U [3 U]	3 U [3 U]	3 U [3 U]
Total VOCs	-	0.40 J	ND	0.64 J	0.36 J	10 J	7.9 J	3.6 J [3.7 J]	4.5 J	1.0	ND	ND	1.3 J	14 J	ND [ND]	0.62 J [0.78 J]	0.26 J [0.30 J]	ND [ND]

Notes:
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-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria
Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

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Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA	MW-23I	MW-23I	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S
Sample Date	GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	12/29/2011	12/20/2012	6/29/2004	12/21/2004	6/28/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	7/2/2009	12/23/2009	6/30/2010	12/16/2010	12/29/2011	8/16/2012
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48
Benzene	1	1 U	1 U	10 U [10 U]	25 U [25 U]	5 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.16 J	0.20 J	0.56 J
Bromodichloromethane	1	1 U	1 U	10 U [10 U]	25 U [25 U]	5 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	1 U	NA	40 U [40 U]	100 U [100 U]	20 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	NA
Bromomethane	10	1 U	NA	50 U [50 U]	120 U [120 U]	25 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA
2- Butanone	300	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8 J
Carbon Disulfide	700	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U
Carbon tetrachloride	1	1 U	1 U	20 U [20 U]	50 U [50 U]	10 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	1 U	NA	50 U [50 U]	120 U [120 U]	25 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA
Chloroethane	-	1 U	1 U	50 U [50 U]	120 U [120 U]	25 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	-	1 U	NA	50 U [50 U]	120 U [120 U]	25 U	5 U	5 U	0.2 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA
Chloroform	70	1 U	1 U	29 J [23 J]	37 J [38 J]	32	22	14	14	6.1	3.6 J	0.8 J	1.0	1.6	4.0	4.5	3.8	1 U
Chloromethane	-	1 U	NA	50 U [50 U]	120 U [120 U]	25 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA
Dibromochloromethane	1	1 U	1 U	50 U [50 U]	120 U [120 U]	25 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	50	1 U	1 U	50 U [50 U]	120 U [120 U]	25 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	0.17 J	1 U	1 U
1,2-Dichloroethane	2	0.56 J	1 U	**230 [220]**	**220 [220]**	**240**	**110**	**51**	**46**	**19**	**11**	**4.2**	**5.2**	**8.9**	**21**	**30**	**27**	1 U
1,1-Dichloroethene	1	0.20 J	1 U	20 U [20 U]	50 U [50 U]	10 U	2 U	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	0.53 J
cis-1,2-Dichloroethene	70	1 U	1 U	**68 [74]**	50 J [49 J]	45	28	11	14	4.7 J	2.0 J	0.4 J	2.2	2.9	12	15	9.9	1 U
trans-1,2-Dichloroethene	100	1 U	1 U	50 U [50 U]	120 U [120 U]	25 U	0.6 J	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	0.20 J	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	NA	10 U [10 U]	25 U [25 U]	5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
cis-1,3-Dichloropropene	-	1 U	NA	50 U [50 U]	120 U [120 U]	25 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA
trans-1,3-Dichloropropene	-	1 U	NA	50 U [50 U]	120 U [120 U]	25 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA
Ethylbenzene	700	1 U	1 U	40 U [40 U]	100 U [100 U]	20 U	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether (MTBE)	70	1 U	1 U	50 U [50 U]	120 U [120 U]	25 U	0.5 J	5 U	0.3 U	5 U	5 U	5 U	1 U	NA	1 U	1 U	1 U	NA
Methylene chloride	3	1 U	1 U	**1500 [1400]**	**3200 [3200]**	**550**	**150**	**72**	**17**	**8.2**	2.3 J	1.4 J	1 U	1 U	**4.9**	**12**	**7.0**	1 U
t-Butyl Alcohol (TBA)	100	20 U	NA	U]	U]	500 U	100 U	100 U	6.5 U	100 U	100 U	100 U	20 U	NA	20 U	20 U	20 U	NA
1,1,2,2-Tetrachloroethane	1	1 U	1 U	10 U [10 U]	25 U [25 U]	5 U	**1.3**	1.0	1.0	0.4 J	1 U	1 U	1 U	0.21 J	0.53 J	0.51 J	0.58 J	1 U
Tetrachloroethene	1	1 U	1 U	10 U [10 U]	25 U [25 U]	5 U	0.8 J	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	1 U	1 U	50 U [50 U]	120 U [120 U]	25 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	30	1 U	1 U	50 U [50 U]	120 U [120 U]	25 U	1.0 J	0.6 J	0.6	5 U	5 U	5 U	1 U	1 U	1 U	1 U	0.29 J	1 U
1,1,2-Trichloroethane	3	1 U	1 U	30 U [30 U]	75 U [75 U]	15 U	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	1	1 U	1 U	**37 [36]**	**22 J [21 J]**	**24**	**13**	**5.4**	**6.4**	**2.1**	**1.4**	1 U	0.68 J	0.66 J	**5.2**	**8.9**	1 U	1 U
Trichlorofluoromethane	2000	1 U	NA	50 U [11 J]	120 U [120 U]	25 U	1.2 J	5 U	0.4 U	5 U	5 U	5 U	NA	NA	NA	NA	**6.6**	NA
Vinyl chloride	1	1 U	1 U	50 U [50 U]	120 U [120 U]	25 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylene (total)	1000	3 U	3 U	50 U [50 U]	120 U [120 U]	25 U	0.6 J	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U	3 U	3 U	3 U	3 U
Total VOCs	-	0.76 J	33	J]	J]	891	329 J	155 J	99	40.5 J	20.3	6.8 J	9.1 J	14.3 J	47.8 J	71.2 J	55.4 J	51.89 J

Notes:
U Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria
Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA	MW-23S	MW-24	MW-24	MW-24	MW-24	MW-24	MW-24	MW-24	MW-24	MW-24	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25
Sample Date	GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	12/20/2012	6/24/2008	12/19/2008	7/1/2009	12/23/2009	6/30/2010	12/16/2010	12/29/2011	7/10/2012	12/20/2012	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/29/2010	12/16/2010	12/29/2011
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	5 U [5 U]	NA	NA	NA	NA	NA	NA	NA	5 U [5 U]	5 U	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.12 J [0.10 J]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.14 J [0.13 J]	0.5 J	1 U	1 U	1 U	0.41 J	1 U	0.44 J	1 U
Bromodichloromethane	1	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	NA	4 U	4 U	1 U	1 U	1 U	1 U	1 U	NA [NA]	NA	4 U	4 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	10	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA [NA]	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U
2- Butanone	300	5 U [5 U]	NA	NA	NA	NA	NA	NA	NA	5 U [5 U]	5 U	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	1 U [1 U]	NA	NA	NA	NA	NA	NA	NA	1 U [1 U]	1 U	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	1 U [1 U]	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	0.5 J	0.7 J	1 U	0.21 J	0.55 J	1 U	0.40 J
Chlorobenzene	50	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA [NA]	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	-	1 U [1 U]	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	-	NA	5 U	5 U	NA	NA	NA	NA	1 U	NA [NA]	NA	5 U	5 U	NA	NA	NA	NA	NA
Chloroform	70	0.57 J [0.55 J]	5 U	5 U	1 U	0.25 J	1 U	1 U	1 U	0.13 J [0.13 J]	1 U	5.0	1.9 J	5.7	2.4	3.0	0.49 J	1.4
Chloromethane	-	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA [NA]	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	1	1 U [1 U]	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	50	1 U [1 U]	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	5 U	5 U	1 U	0.41 J	1 U	0.24 J	1 U
1,2-Dichloroethane	2	**5.5 [5.5]**	2 U	2 U	1 U	1 U	1 U	1.4	1 U	1 U [1 U]	1 U	**4.5**	0.6 J	**2.8**	**34**	**4.7**	**45**	**8.2**
1,1-Dichloroethene	1	1 U [1 U]	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1.1 [1.1]	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	8.7	1.3 J	13	14	14	3.0	4.3
trans-1,2-Dichloroethene	100	1 U [1 U]	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	5 U	5 U	1 U	0.28 J	0.23 J	0.27 J	1 U
1,2-Dichloropropane	1	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA [NA]	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA [NA]	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	-	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA [NA]	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	1 U [1 U]	4 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether (MTBE)	70	1 U [1 U]	5 U	5 U	1 U	NA	1 U	1 U	1 U	1 U [1 U]	1 U	5 U	5 U	1 U	NA	1 U	1 U	1 U
Methylene chloride	3	1.8 [1.7]	3 U	3 U	1 U	1 U	1 U	1.7	1 U	1 U [1 U]	1 U	3 U	3 U	1 U	2.5	0.82 J	1.1	1.6
t-Butyl Alcohol (TBA)	100	NA	100 U	100 U	20 U	NA	20 U	20 U	20 U	NA [NA]	NA	100 U	100 U	20 U	NA	20 U	20 U	5.2 J
1,1,2,2-Tetrachloroethane	1	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	0.13 J	0.21 J [0.18 J]	1 U	1 U	1 U	1 U	0.34 J	1 U	1 U	0.11 J
Tetrachloroethene	1	1 U [1 U]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	0.12 J	0.6 J	1 U	0.63 J	0.55 J	**1.1**	0.39 J	0.41 J
Toluene	600	1 U [1 U]	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	30	1 U [1 U]	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	0.7 J	5 U	1 U	1.3	0.58 J	1.2	1 U
1,1,2-Trichloroethane	3	1 U [1 U]	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	1	**1.2 [1.2]**	1 U	1 U	1 U	1 U	1 U	0.52 J	1 U	1 U [1 U]	1 U	**8.0**	**1.2**	**9.7**	**41**	**9.6**	**37**	1 U
Trichlorofluoromethane	2000	NA	5 U	5 U	NA	NA	NA	NA	1 U	NA [NA]	NA	5 U	5 U	NA	NA	NA	NA	4.8
Vinyl chloride	1	1 U [1 U]	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U
Xylene (total)	1000	3 U [3 U]	5 U	5 U	3 U	3 U	3 U	3 U	3 U	3 U [3 U]	3 U	5 U	5 U	3 U	3 U	3 U	1.0 J	3 U
Total VOCs	-	J]	ND	ND	ND	0.25 J	ND	3.62 J	0.13 J	0.48 J [0.44 J]	0.62 J	28 J	5.7 J	31.8 J	97.4 J	34.6 J	90.1 J	26.4 J

Notes:
U Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
Red bolded value indicates a detection that exceeds regulatory criteria
Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-25	MW-25	MW-26	MW-26	MW-26	MW-26	MW-26	MW-26	MW-26	MW-26	MW-26	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27
Sample Date		7/11/2012	12/20/2012	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/29/2010	12/16/2010	12/29/2011	7/11/2012	12/20/2012	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/29/2010	12/16/2010
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	5 U	5 U	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA	NA
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	0.74 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	NA	NA	4 U	4 U	1 U	1 U	1 U	1 U	1 U	NA	NA	4 U	4 U	1 U	1 U	1 U	1 U
Bromomethane	10	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U
2- Butanone	300	5 U	5 U	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	0.55 J	1 U	2 U	**9.8**	**3.4**	**1.6**	1 U	1.0	**1.3**	**1.6**	0.44 J	2 U	2 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U
Chloroethane	-	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	-	NA	NA	5 U	5 U	NA	NA	NA	NA	1 U	NA	NA	5 U	5 U	NA	NA	NA	NA
Chloroform	70	1.4	0.56 J	2.8 J	10	8.0	3.8	1.2	0.67 J	2.6	3.9	0.75 J	5 U	0.7 J	2.0	2.1	0.48 J	0.20 J
Chloromethane	-	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U
Dibromochloromethane	1	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	50	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	2	**6.2**	**7.6**	**20**	2	**40**	**16**	**120**	**28**	**6.8**	**11**	**10**	2 U	2 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	1	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	8.2	29	8.2	5 U	1.4	2.1	11	4.4	0.34 J	6	3.9	5 U	4.3 J	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	1 U	1.5	5 U	5 U	1 U	1 U	0.22 J	1 U	1 U	0.44 J	1 U	5 U	0.5 J	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	-	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	1 U	1 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	4 U	1 U	1 U	1 U	1.0
Methyl tert-butyl ether (MTBE)	70	1 U	1 U	5 U	5 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	NA	1 U	1 U
Methylene chloride	3	1.9	2.6	1.2 J	3 U	1.1	0.85 J	**16**	2.1	0.37 J	1.1	1.3	3 U	3 U	1 U	1 U	1 U	1 U
t-Butyl Alcohol (TBA)	100	NA	NA	100 U	100 U	20 U	NA	20 U	20 U	20 U	NA	NA	100 U	100 U	20 U	NA	20 U	20 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	**3.0**	**3.0**	**1.8**	**2.4**	0.43 J	**1.5**	**1.7**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	1	0.38 J	0.73 J	0.4 J	**4.7**	0.79 J	0.62 J	0.71 J	0.92 J	0.42 J	0.44 J	0.28 J	**5.2**	1 U	1 U	0.65 J	0.35 J	0.60 J
Toluene	600	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	30	1 U	0.21 J	5 U	5 U	1 U	1 U	1 U	0.35 J	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	3	1 U	1 U	3 U	3 U	1 U	1 U	0.34 J	1 U	1 U	1 U	1 U	3 U	3 U	1 U	1 U	1 U	1 U
Trichloroethene	1	**6**	**27**	**6.8**	**1.2**	**2.1**	**1.6**	**9.0**	**17**	1 U	**7.3**	**4.7**	**10**	**57**	**16**	**8.5**	**4.7**	**4.7**
Trichlorofluoromethane	2000	NA	NA	5 U	5 U	NA	NA	NA	NA	1.2	NA	NA	5 U	5 U	NA	NA	NA	NA
Vinyl chloride	1	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U
Xylene (total)	1000	3 U	3 U	5 U	5 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	5 U	5 U	3 U	3 U	3 U	2.4 J
Total VOCs	-	24.63 J	69.2 J	39.4 J	30.7	59.8 J	28.4 J	161.6 J	54.9 J	14.5 J	33.48 J	21.37 J	15.2	62.5 J	18	11.3 J	5.53 J	8.9 J

Notes:
U Not Detected Above Detection Limits
-- Not Sampled
Bolded value indicates a detect above detection limits
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Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	MW-27	MW-27	MW-27	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	PZ-1S	PZ-1S	PZ-1S	PZ-1S	PZ-1S
Sample Date		12/29/2011	7/10/2012	12/20/2012	6/24/2008	12/19/2008	6/30/2009	12/23/2009	6/29/2010	12/16/2010	12/29/2011	7/11/2012	12/20/2012	12/19/2008	7/1/2009	12/23/2009	6/30/2010	12/16/2010
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	5 U	5 U	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA
Benzene	1	0.31 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 J	1 U	1 U	1 U	0.39 J
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	1 U	NA	NA	4 U	4 U	1 U	1 U	1 U	1 U	1 U	NA	NA	4 U	1 U	1 U	1 U	1 U
Bromomethane	10	1 U	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	1 U	1 U	1 U	1 U
2- Butanone	300	NA	5 U	5 U	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	NA
Carbon tetrachloride	1	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	1 U	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	1 U	1 U	1 U	1 U
Chloroethane	-	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	-	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA	NA	NA	5 U	1 U	NA	1 U	NA
Chloroform	70	0.27 J	1 U	1 U	5 U	5 U	1 U	0.67 J	1 U	0.59 J	1 U	1 U	1 U	3.0 J	0.46 J	0.16 J	1 U	0.31 J
Chloromethane	-	1 U	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	1 U	1 U	1 U	1 U
Dibromochloromethane	1	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	50	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	2	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**20**	**4.9**	**6.3**	**3.2**	**32**
1,1-Dichloroethene	1	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	7.1	0.94 J	0.39 J	0.61 J	0.99 J
trans-1,2-Dichloroethene	100	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	1 U	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	-	1 U	NA	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	5 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	1 U	1 U	1 U	4 U	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether (MTBE)	70	1 U	1 U	1 U	5 U	5 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	5 U	1 U	NA	1 U	1 U
Methylene chloride	3	1 U	1 U	1 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.9 J	1 U	2.4	1 U	0.69 J
t-Butyl Alcohol (TBA)	100	20 U	NA	NA	100 U	100 U	20 U	NA	20 U	20 U	20 U	NA	NA	100 U	20 U	NA	20 U	20 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	1	0.27 J	0.26 J	0.47 J	0.7 J	**2.0**	1.0	0.27 J	0.39 J	1 U	0.50 J	0.57 J	0.67 J	1 U	1 U	1 U	1 U	0.28 J
Toluene	600	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	30	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.7 J	1 U	1 U	1 U	0.80 J
1,1,2-Trichloroethane	3	1 U	1 U	1 U	3 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U
Trichloroethene	1	1 U	**13**	**9.5**	1 U	1 U	0.59 J	**3.2**	0.29 J	**4.6**	1 U	0.64 J	0.64 J	**17**	**2.1**	**1.8**	**2.3**	**11**
Trichlorofluoromethane	2000	**9.6**	NA	NA	5 U	5 U	NA	NA	NA	NA	0.47 J	NA	NA	5 U	1 U	1 U	1 U	1 U
Vinyl chloride	1	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
Xylene (total)	1000	3 U	3 U	3 U	5 U	5 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	0.2 J	3 U	3 U	3 U	3 U
Total VOCs	-	10.5 J	13.26 J	9.97 J	0.7 J	2	1.6 J	4.1 J	0.68 J	5.19 J	0.97 J	1.21 J	1.31 J	49.3 J	8.4 J	11.1 J	6.1 J	46.7 J

Notes:
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Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
Historic Groundwater Analytical Results
Attachment 2

Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	PZ-1S	PZ-1S	PZ-1S	WCC-1M	WCC-1M	WCC-1M	WCC-1M	WCC-1M	WCC-1M	WCC-1M	WCC-1M	WCC-1M	WCC-1M	WCC-1M	WCC-1M	WCC-1M
Sample Date		12/29/2011	7/10/2012	12/20/2012	6/29/2004	12/20/2004	6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	7/1/2009	12/23/2009	6/30/2010
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																	
Acetone	6000	NA	5 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	1 U	1 U	1 U	1 U [1 U]	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	0.2 U [0.2 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U
Bromodichloromethane	1	1 U	1 U	0.38 J	1 U [1 U]	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	0.2 U [0.2 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U
Bromoform	4	1 U	NA	NA	4 U [4 U]	4 U	4 U	4 U [4 U]	4 U [4 U]	4 U [4 U]	0.2 U [0.2 U]	4 U [4 U]	4 U [4 U]	4 U [4 U]	1 U [1 U]	1 U	1 U
Bromomethane	10	1 U	NA	NA	5 U [5 U]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
2- Butanone	300	NA	5 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	1 U	1 U	1 U	2 U [2 U]	2 U	2 U	2 U [2 U]	2 U [2 U]	2 U [2 U]	0.3 U [0.3 U]	2 U [2 U]	2 U [2 U]	2 U [2 U]	1 U [1 U]	1 U	1 U
Chlorobenzene	50	1 U	NA	NA	5 U [5 U]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.2 U [0.2 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
Chloroethane	-	1 U	1 U	1 U	5 U [5 U]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
2-Chloroethyl vinyl ether	-	1 U	NA	NA	5 U [5 U]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.2 U [0.2 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	NA
Chloroform	70	0.18 J	1 U	1.6	1.8 J [1.8 J]	2.4 J	1.8 J	2.0 J [2.1 J]	1.0 J [1.3 J]	1.1 J [1.0 J]	0.7 [0.7]	1.2 J [1.1 J]	0.6 J [0.6 J]	0.9 J [0.8 J]	0.68 J [0.58 J]	0.21 J	0.33 J
Chloromethane	-	1 U	NA	NA	5 U [5 U]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
Dibromochloromethane	1	1 U	1 U	1 U	5 U [5 U]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.3 U [0.3 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
1,1-Dichloroethane	50	1 U	1 U	1 U	5 U [5 U]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.3 U [0.3 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
1,2-Dichloroethane	2	**5.0**	0.24 J	**4.8**	**14 [15]**	**34**	**11**	**44 [46]**	**12 [12]**	**35 [36]**	**5.6 [6.0]**	**55 [54]**	**8.9 [9.3]**	**90 [81]**	**29 [28]**	**19**	**7.5**
1,1-Dichloroethene	1	1 U	1 U	1 U	0.6 J [0.5 J]	0.6 J	0.8 J	2 U [2 U]	1.0 J [0.9 J]	0.6 J [0.6 J]	**1.1 [1.0]**	2 U [2 U]	1.0 J [0.9 J]	2 U [2 U]	1 U [1 U]	0.31 J	0.39 J
cis-1,2-Dichloroethene	70	0.33 J	0.23 J	1.9	14 [15]	9	5.8	8.5 [8.5]	3.2 J [3.0 J]	6.3 [6.1 J]	4.1 [4.1]	11 [11]	1.0 J [1.0 J]	11 [10]	4.4 [4.2]	3.1	1.3
trans-1,2-Dichloroethene	100	1 U	1 U	1 U	0.3 J [0.3 J]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
1,2-Dichloropropane	1	1 U	NA	NA	1 U [1 U]	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	0.5 U [0.5 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U
cis-1,3-Dichloropropene	-	1 U	NA	NA	5 U [5 U]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.1 U [0.1 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
trans-1,3-Dichloropropene	-	1 U	NA	NA	5 U [5 U]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.2 U [0.2 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
Ethylbenzene	700	1 U	1 U	1 U	4 U [4 U]	4 U	4 U	4 U [4 U]	4 U [4 U]	4 U [4 U]	0.4 U [0.4 U]	4 U [4 U]	4 U [4 U]	4 U [4 U]	1 U [1 U]	1 U	1 U
Methyl tert-butyl ether (MTBE)	70	1 U	1 U	1 U	5 U [5 U]	5 U	5 U	5 U [5 U]	0.6 J [0.6 J]	5 U [5 U]	0.3 U [0.3 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
Methylene chloride	3	0.72 J	1 U	1.6	1.7 J [1.8 J]	1 J	3 U	1.1 J [1.2 J]	0.8 J [0.7 J]	0.7 J [0.7 J]	0.8 [0.8]	0.7 J [0.7 J]	0.8 J [0.8 J]	0.9 J [0.9 J]	1 U [1 U]	1 U	0.72 J
t-Butyl Alcohol (TBA)	100	20 U	NA	NA	100 U [100 U]	100 U	100 U	100 U [100 U]	100 U [100 U]	100 U [100 U]	6.5 U [6.5 U]	100 U [100 U]	100 U [100 U]	7.9 J [10 J]	20 U [20 U]	20 U	20 U
1,1,2,2-Tetrachloroethane	1	1 U	0.53 J	1 U	**1.5 [1.3]**	**1.1**	0.9 J	0.8 J [0.8 J]	1 U [0.5 J]	0.6 J [0.5 J]	0.4 [0.4]	0.7 J [0.7 J]	1 U [1 U]	0.3 J [0.3 J]	1 U [0.29 J]	0.16 J	1 U
Tetrachloroethene	1	1 U	0.6 J	0.25 J	0.3 J [1 U]	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U [1 U]	0.4 U [0.4 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U
Toluene	600	1 U	1 U	1 U	5 U [5 U]	2.4 J	0.8 J	5 U [5 U]	0.4 J [0.4 J]	5 U [5 U]	0.3 U [0.3 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1.3	1 U
1,1,1-Trichloroethane	30	1 U	1 U	1 U	5 U [5 U]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
1,1,2-Trichloroethane	3	1 U	1 U	1 U	3 U [3 U]	3 U	3 U	3 U [3 U]	3 U [3 U]	3 U [3 U]	0.2 U [0.2 U]	3 U [3 U]	3 U [3 U]	3 U [3 U]	1 U [1 U]	1 U	1 U
Trichloroethene	1	1 U	0.68 J	**4.2**	**8 [8.1]**	**4.1**	**4.2**	**4.4 [4.1]**	**2.6 [2.4]**	**3 [2.9]**	**2.7 [2.8]**	**6.4 [5.8]**	**1.2 [1.2]**	**5.5 [5.6]**	**2.7 [2.4]**	**1.6**	**0.7 J**
Trichlorofluoromethane	2000	**1.1**	NA	NA	5 U [5 U]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
Vinyl chloride	1	1 U	1 U	1 U	5 U [5 U]	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.2 U [0.2 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	1 U [1 U]	1 U	1 U
Xylene (total)	1000	3 U	3 U	3 U	5 U [5 U]	5 U	0.6 J	5 U [5 U]	5 U [5 U]	5 U [5 U]	0.4 U [0.4 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	3 U [3 U]	3 U	3 U
Total VOCs	-	7.33 J	2.28 J	14.73 J	42.2 J [43.8 J]	54.6 J	25.9 J	60.8 J [62.7 J]	21.6 J [21.8 J]	47.3 J [47.8 J]	15.4 [15.8]	75 J [73.3 J]	13.5 [13.8]	116.5 J [108.6 J]	36.8 J [35.5 J]	25.7 J	10.9 J

Notes:
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-- Not Sampled
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Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	WCC-1M	WCC-1M	WCC-1M	WCC-1M	WCC-1S	WCC-1S	WCC-1S	WCC-1S	WCC-1S	WCC-1S	WCC-1S	WCC-1S	WCC-1S	WCC-1S	WCC-1S	WCC-1S
Sample Date		12/16/2010	12/29/2011	7/11/2012	12/20/2012	6/29/2004	12/20/2004	6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	12/27/2007	6/24/2008	12/19/2008	7/2/2009	12/23/2009	6/30/2010
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	5 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	1 U	0.22 J	1 U	0.45 J	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U
Bromoform	4	1 U	1 U	NA	NA	4 U	4 U	4 U	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U [1 U]	1 U
Bromomethane	10	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
2- Butanone	300	NA	NA	5 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U [1 U]	1 U
Chlorobenzene	50	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
Chloroethane	-	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
2-Chloroethyl vinyl ether	-	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
Chloroform	70	0.54 J	0.41 J	0.32 J	0.54 J	17	5 U	5 U	5 U	5 U	5 U	1.2	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
Chloromethane	-	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
Dibromochloromethane	1	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
1,1-Dichloroethane	50	0.24 J	1 U	1 U	1 U	0.8 J	5 U	0.8 J	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
1,2-Dichloroethane	2	**56**	**3.5**	**3.7**	**49**	**74**	2 U	**77**	2 U	2 U	1.0 J	**6.5**	2 U	2 U	2 U	1 U	1 U [1 U]	0.51 J
1,1-Dichloroethene	1	1 U	0.48 J	0.47 J	1 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U	2 U	1 U	1 U [1 U]	1 U
cis-1,2-Dichloroethene	70	9.0	1.4	1.5	11	26	5 U	17	5 U	5 U	5 U	1.6	5 U	5 U	5 U	1 U	1 U [1 U]	0.49 J
trans-1,2-Dichloroethene	100	1 U	1 U	1 U	1 U	0.8 J	5 U	0.7 J	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
1,2-Dichloropropane	1	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U
cis-1,3-Dichloropropene	-	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
trans-1,3-Dichloropropene	-	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
Ethylbenzene	700	1 U	1 U	1 U	1 U	4 U	4 U	4 U	4 U	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U [1 U]	1 U
Methyl tert-butyl ether (MTBE)	70	1 U	1 U	1 U	1 U	0.6 J	5 U	0.9 J	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
Methylene chloride	3	0.60 J	0.50 J	1 U	1 U	**8.7**	3 U	1.3 J	3 U	3 U	3 U	1.4	3 U	3 U	3 U	1 U	1 U [1 U]	1 U
t-Butyl Alcohol (TBA)	100	20 U	20 U	NA	NA	100 U	100 U	100 U	100 U	100 U	100 U	6.5 U	100 U	100 U	100 U	20 U	20 U [20 U]	20 U
1,1,2,2-Tetrachloroethane	1	0.30 J	0.19 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U
Tetrachloroethene	1	1 U	1 U	1 U	1 U	1.0	1 U	0.5 J	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U [1 U]	1 U
Toluene	600	1 U	1 U	1 U	1 U	5 U	5 U	0.5 J	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
1,1,1-Trichloroethane	30	1 U	1 U	1 U	1 U	0.9 J	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
1,1,2-Trichloroethane	3	1 U	1 U	1 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U [1 U]	1 U
Trichloroethene	1	**4.7**	1 U	**2.1**	**4.8**	**14**	1 U	**7.7**	1 U	1 U	1 U	**2.3**	1 U	1 U	1 U	1 U	1 U [1 U]	0.82 J
Trichlorofluoromethane	2000	1 U	**1.6**	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
Vinyl chloride	1	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U [1 U]	1 U
Xylene (total)	1000	3 U	3 U	3 U	3 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	3 U	3 U [3 U]	3 U
Total VOCs	-	71.4 J	8.3 J	8.09 J	65.79 J	144 J	ND	106.4 J	ND	ND	1.0 J	13.0	ND	ND	ND	ND	ND [ND]	1.82 J

Notes:
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Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
Old Bridge, New Jersey
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Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	WCC-1S	WCC-1S	WCC-1S	WCC-1S	WCC-3M	WCC-3M	WCC-3M	WCC-3M	WCC-3M	WCC-3M	WCC-3M	WCC-3M	WCC-3M	WCC-3M	WCC-3M	WCC-3M
Sample Date		12/16/2010	12/29/2011	7/11/2012	12/20/2012	6/29/2004	12/20/2004	6/28/2005	12/21/2005	6/21/2006	12/20/2006	7/6/2007	1/22/2008	6/24/2008	12/19/2008	7/2/2009	12/23/2009	6/30/2010
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)																		
Acetone	6000	NA	NA	5 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	1 U	1 U	0.13 J	0.17 J	0.5 J	1 U	1 U	1 U	1 U	1 U	0.3	0.4 J	0.3 J	1 U	1 U	0.45 J	0.32 J
Bromodichloromethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	1 U	1 U	NA	NA	4 U	4 U	4 U	4 U	4 U	4 U	0.2 U	4 U	4 U	4 U	1 U	1 U	1 U
Bromomethane	10	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U
2- Butanone	300	NA	NA	5 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	700	NA	NA	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	1	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U
Chlorobenzene	50	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U
Chloroethane	-	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	-	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U
Chloroform	70	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	0.3 J	1 U	0.18 J	0.28 J
Chloromethane	-	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U
Dibromochloromethane	1	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U
1,1-Dichloroethane	50	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	5 U	1 U	1 U	1 U
1,2-Dichloroethane	2	1 U	**23**	**5.3**	0.92 J	2 U	2 U	2 U	2 U	2 U	2 U	0.3 U	2 U	2 U	2 U	1 U	1 U	1 U
1,1-Dichloroethene	1	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	0.6	0.6 J	0.5 J	2 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1 U	7.9	3.3	0.41 J	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	5 U	5 U	0.2 J	1 U	0.20 J	1 U
trans-1,2-Dichloroethene	100	1 U	0.22 J	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	-	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.1 U	5 U	5 U	5 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	-	1 U	1 U	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U
Ethylbenzene	700	1 U	1 U	1 U	1 U	0.7 J	4 U	4 U	4 U	4 U	4 U	0.4 U	4 U	4 U	4 U	1 U	1 U	1 U
Methyl tert-butyl ether (MTBE)	70	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	1.4 J	0.6 J	0.6	1.8 J	0.8 J	0.3 J	1 U	0.74 J	0.70 J
Methylene chloride	3	1 U	1 U	1 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	0.4 U	3 U	3 U	3 U	1 U	1 U	1 U
t-Butyl Alcohol (TBA)	100	20 U	20 U	NA	NA	100 U	100 U	100 U	100 U	100 U	100 U	6.5 U	100 U	100 U	9.8 J	20 U	20 U	20 U
1,1,2,2-Tetrachloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 J	0.8	1.0	1.0 J	0.7 J	**1.3**	0.88 J	0.50 J
Tetrachloroethene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	1 U	1 U	1 U	1 U	5 U	1.5 J	5 U	5 U	5 U	5 U	0.5	5 U	5 U	5 U	1 U	0.22 J	1 U
1,1,1-Trichloroethane	30	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U
1,1,2-Trichloroethane	3	1 U	1 U	1 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	0.2 U	3 U	3 U	3 U	1 U	1 U	1 U
Trichloroethene	1	1 U	1 U	**1.7**	0.52 J	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	1 U	1 U	1 U	1 U	0.34 J	0.26 J
Trichlorofluoromethane	2000	1 U	**3.4**	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	1 U	1 U	1 U
Vinyl chloride	1	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.2 U	5 U	5 U	5 U	1 U	1 U	1 U
Xylene (total)	1000	3 U	3 U	3 U	3 U	5.7	5 U	5 U	5 U	5 U	5 U	0.4 U	5 U	5 U	5 U	3 U	0.44 J	3 U
Total VOCs	-	ND	35.5 J	10.43 J	2.02 J	6.9 J	1.5 J	ND	ND	1.4 J	1.1 J	2.8	3.8 J	2.6 J	11.3 J	1.3	3.5 J	2.06 J

Notes:
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Historic groundwater data are obtained from the 2012 Annual Groundwater Report (Arcadis, 2012)

Evor Phillips Leasing Company (EPLC) Superfund Site
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Sample ID	NJ CLASS IIA GROUNDWATER QUALITY CRITERIA (7/22/2010) ug/L	WCC-3M	WCC-3M	WCC-3M	WCC-3M	IW-3S	IW-4S	IW1-BT-2
Sample Date		12/16/2010	12/29/2011	7/11/2012	1/9/2013	7/12/2012	7/12/2012	7/10/2012
Unit		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
(VOCs)								
Acetone	6000	NA	NA	5 U [5 U]	5 U	51	5 U	5 U
Benzene	1	NA	NA	0.3 J [0.25 J]	0.24 J	0.27 J	1 U	1 U
Bromodichloromethane	1	NA	NA	1 U [1 U]	1 U	1 U	1 U	1 U
Bromoform	4	NA	NA	NA	NA	NA	NA	NA
Bromomethane	10	NA	NA	NA	NA	NA	NA	NA
2- Butanone	300	NA	NA	1 U [1 U]	1 U	2.8 J	5 U	5 U
Carbon Disulfide	700	NA	NA	1 U [1 U]	1 U	0.77 J	1 U	1 U
Carbon tetrachloride	1	NA	NA	1 U [1 U]	1 U	1 U	1 U	1 U
Chlorobenzene	50	NA	NA	NA	NA	NA	NA	NA
Chloroethane	-	NA	NA	1 U [1 U]	1 U	1 U	1 U	1 U
2-Chloroethyl vinyl ether	-	NA	NA	NA	NA	NA	NA	NA
Chloroform	70	NA	NA	0.25 J [0.31 J]	0.38 J	1.5	0.26 J	1 U
Chloromethane	-	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	1	NA	NA	1 U [1 U]	1 U	1 U	1 U	1 U
1,1-Dichloroethane	50	NA	NA	1 U [1 U]	1 U	1 U	1 U	1 U
1,2-Dichloroethane	2	NA	NA	1 U [1 U]	1 U	**140**	1 U	1 U
1,1-Dichloroethene	1	NA	NA	1 U [1 U]	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	NA	NA	1 U [1 U]	1 U	0.61 J	0.37 J	38
trans-1,2-Dichloroethene	100	NA	NA	1 U [1 U]	1 U	1 U	1 U	0.69 J
1,2-Dichloropropane	1	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	-	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	-	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	NA	NA	1 U [1 U]	1 U	1 U	1 U	1 U
Methyl tert-butyl ether (MTBE)	70	NA	NA	0.22 J [0.28 J]	1 U	1 U	1 U	1 U
Methylene chloride	3	NA	NA	1 U [1 U]	1 U	2.8	1 U	1 U
t-Butyl Alcohol (TBA)	100	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	1	NA	NA	0.33 J [0.32 J]	1 U	1 U	1 U	1 U
Tetrachloroethene	1	NA	NA	1 U [1 U]	1 U	**1.3**	1 U	0.96 J
Toluene	600	NA	NA	1 U [1 U]	1 U	0.52 J	1 U	1 U
1,1,1-Trichloroethane	30	NA	NA	1 U [1 U]	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	3	NA	NA	1 U [1 U]	1 U	1 U	1 U	1 U
Trichloroethene	1	NA	NA	0.2 J [0.16 J]	0.29 J	**6**	0.63 J	**69**
Trichlorofluoromethane	2000	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	1	NA	NA	1 U [1 U]	1 U	**1.9**	1 U	1 U
Xylene (total)	1000	NA	NA	3 U [3 U]	3 U	3 U	3 U	3 U
Total VOCs	-	NA	NA	1.30 J [1.32 J]	0.91 J	209.47 J	1.26 J	108.65 J

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Attachment 3:

Data Validation Results

TO: J. Levesque **cc:**
FROM: K. Storne
RE: Evor Phillips Leasing Company (EPLC)Superfund Site, OU3 Site Groundwater Baseline Groundwater Monitoring, Data Validation Report
FILE: 19726/51308.001.200
DATE: April 16, 2014

This report presents the data validation results performed for environmental samples collected for the Baseline Groundwater Monitoring Event as part of the OU3-Site Groundwater Remedial Action at the Evor Phillips Leasing Company (EPLC) Superfund Site in Old Bridge Township, New Jersey.

SAMPLE AND VALIDATION SUMMARY

The environmental samples collected for this effort consisted of groundwater samples, matrix spike/ matrix spike duplicates, field duplicates, field blanks and trip blanks. Samples were analyzed by Accutest Laboratories of Dayton, New Jersey (Accutest New Jersey).

The laboratory utilized the methods listed in Table 1 for sample analyses.

Table 1. *Analytical methods and references*

Parameter	Methods	Reference
VOCs	USEPA Methods 8000C/5030B/8260B	1
Metals	USEPA Methods 3010A/6010C	2
Sulfate	USEPA Method 9056A/300.0	2/4
TDS	SM20 2540C	3

Note:
VOCs indicates volatile organic compounds.
TDS indicates total dissolved solids.

1. United States Environmental Protection Agency (USEPA). 2004. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846,* 3rd Edition, Update IIIB. Washington D.C.
2. USEPA. 2007. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846,* 3rd Edition, Update IV. Washington D.C.
3. AWWA, APHA, WEF. 1998. *Standard Methods for the Examination of Water and Wastewater*, 20th Edition. Washington, D.C.
4. USEPA. 1993a. Methods for the Determination of Inorganic Substances in Environmental Samples, EPA-600/R-93/100. Washington, D.C.

The laboratory data packages included summary forms for quality control analysis and supportive raw data.

The samples submitted for data review are summarized in the attached Table 2. Table 3 presents the specific data validation approach applied to data generated. Table 4 presents the Laboratory quality assurance/quality control (QA/QC) analyses definitions.

In accordance with the approved RDR/RAWP, full validation was performed on 10 percent of the samples collected and submitted for validation. This consisted of a review of data summary forms and raw analytical data provided in the data packages. Partial validation was performed for the remaining data. Partial data quality review consists of a review of only analytical QC summary forms that are included in the data package. The forms and the information contained on the forms are not evaluated for accuracy or completeness during partial data validation.

The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) criteria established in the methods utilized by the laboratories and the following document:

- O'Brien & Gere. 2014. *Uniform Federal Policy Quality Assurance Project Plan, Operable Unit 3 (OU3)- Site Groundwater Evor Phillips Leasing Company (EPLC) Superfund Site, Old Bridge Township, New Jersey.* Edison, New Jersey. (QAPP)

Data affected by excursions from these criteria were qualified using professional judgment and the general validation approach provided in the following validation guideline documents, modified to reflect the requirements of the methods utilized by the laboratories:

- New Jersey Department of Environmental Protection (NJDEP). 2001a. S*tandard Operating Procedure (SOP) for Analytical Data Validation of Target Analyte List (TAL) – Inorganics*, SOP No. 5.A.2. Trenton, New Jersey

- NJDEP. 2001b. S*tandard Operating Procedures for the Quality Assurance Data Validation of Analytical Deliverables – TCL- Organics (based on the USEPA SOW OLM04.2 with Revisions)*, SOP No. 5.A.13. Trenton, New Jersey

The application of these validation guidelines has been modified to reflect the requirements of the methods utilized by the laboratory.

In accordance with the NJDEP guidance, and utilizing professional judgment, the following qualifiers are used in this type of data review:

- "U" Indicates that the analyte was analyzed for, but was not detected.

- "J" Indicates that the result should be considered to be an estimated value. This qualifier is used when the data validation process identifies a deficiency in the data generation process.

- "UJ" Indicates that the sample-specific reporting limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.

- "R" Indicates that the reporting limit or sample result has been determined to be unusable due to a major deficiency in the data generation process. The data should not be used for any qualitative or quantitative purposes.

In addition, in accordance with the NJDEP guidance, the following single word descriptors were added to analyte results if the reported analyte required a quality assurance action.

- Qualify (Q) - used when the results of a given analyte in a sample do not meet all QA/QC criteria but the deficiencies are not severe enough to warrant data rejection.

- Negate (N) - used when the presence of a given analyte in a sample can be attributed to the laboratory/field introduced contamination.

- Reject (R) - used when the results of a given analyte in a sample do not meet all QA/QC criteria so that the qualitative presence and/or quantitation of that analyte in the sample cannot be determined with any degree of confidence.

Footnotes, based on the NJDEP validation guidance, were applied to each qualifier to define the type of excursion that affected the sample result, resulting in the qualification of the data. Footnotes used in this validation are presented in Table 5 below.

Table 5. *Validation Footnote Definitions*	
Footnote	**Type of Excursion**
39	The reported concentration is quantitative qualified because the concentration is below the RL.
91	Results are qualified due to calibration excursions.

The following parameters were evaluated, where applicable:

- QAPP compliance
- Documentation completeness
- Chain-of-custody record
- Sample collection
- Sample preservation
- Holding times
- Calibrations (Full validation only)
- Blank analysis
- Matrix spike/ matrix spike duplicate (MS/MSD) analysis
- Laboratory Control Sample (LCS) analysis
- Field duplicate analysis
- Surrogate recovery
- Internal standards performance
- Gas chromatography/mass spectrometry (GC/MS) instrument performance check (Full validation only)
- Inductively coupled plasma (ICP) interference check analysis (Full validation only)
- ICP serial dilution analysis
- Laboratory duplicate analysis
- Target analyte quantitation, identification, and quantitation limits (QLs) (Full validation only)

The following sections of this memorandum present the results of the comparison of the analytical data to the QA/QC criteria specified above.

VOC DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results:

- QAPP compliance
- Documentation completeness
- Chain-of-custody record
- Sample collection
- Sample preservation
- Holding times
- Blank analysis
- MS/MSD analysis
- LCS analysis
- Field duplicate analysis
- Surrogate recovery
- Internal standards performance

- GC/MS instrument performance check
- Target analyte identification

Excursions from method or validation criteria and additional observations are described below.

I. Calibration

The results for the following samples were qualified as approximate (UJ, 91) due to minor calibration accuracy excursions:

- Acetone, methyl acetate, 4-methyl-2-pentanone and 1,2-dibromo-3-chloropropane in samples BASE-MW23D-01062014, BASE-MW23S-01062014 and BASE-MW23I-01062014.

II. Target analyte quantitation and detection limits

Sample results with concentrations greater than the method detection limits (MDL) but less than the QL were flagged as approximate (J) by the laboratory. This flag was retained during the validation process to indicate the data is approximate (J, 39).

A dilution was performed for VOC sample BASE-ISCOMW2-01102014 due to high concentrations of target analytes.

METALS, SULFATE and TDS DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results (where applicable):

- QAPP compliance
- Documentation completeness
- Chain-of-custody record
- Sample collection
- Sample preservation
- Holding times
- Calibrations
- Blank analysis
- MS/MSD analysis
- LCS analysis
- Field duplicate analysis
- ICP interference check analysis
- ICP serial dilution analysis
- Laboratory duplicate analysis

Excursions from method or validation criteria were not identified during the validation process. Additional observations are described below.

I. Target analyte quantitation and QLs

Results for metals and inorganics were reported to the QL concentration.

Dilutions were performed for samples BASE-ISCOMW8-01092014 and BASE-ISCOMW2-01102014 for metals analyses due to high concentrations of target analytes.

DATA USABILITY

The data from the samples on Table 2 were evaluated based on QA/QC criteria established by the methods listed in Table 1 and the data validation approach as described in Table 3.

Major deficiencies in the data generation process would have resulted in data points being rejected, indicating that the data are considered unusable for either quantitative or qualitative purposes. Major deficiencies were not identified during the validation process. Minor deficiencies in the data generation process resulted in sample data being characterized as approximate.

A discussion of the data quality with regard to the data usability parameters follows:

Precision: Data were not rejected for precision excursions.

Sensitivity: Sensitivity is established by QLs, which represent measurable concentrations of analytes which can be determined with a designated level of confidence, that meet project requirements. Dilutions were performed for analyses due to elevated concentrations of target analytes in the samples.

Accuracy: Data were not rejected for accuracy excursions.

Representativeness: Data were not rejected for representativeness excursions.

Comparability: Data usability with respect to comparability is 100 percent, as standardized analytical methods, QLs, reference materials, and data deliverables were used throughout the data generation process for this project.

Completeness: For the samples submitted for data validation, overall data usability with respect to completeness 100 percent for the data, considering the complete data set; therefore, the usability met the QAPP requirement of usable for qualitative and quantitative purposes.

Table 2. Sample Cross Reference Table

Samples collected and submitted for data validation

Laboratory Name	Date Collected	Client Identification	Laboratory Identification	Matrix	Analysis Requested
Accutest	1/6/2014	BASE-MW23D-01062014	JB57131-1	Groundwater	VOCs
Accutest	1/6/2014	BASE-MW23S-01062014	JB57131-2	Groundwater	VOCs
Accutest	1/6/2014	BASE-MW23I-01062014	JB57131-3	Groundwater	VOCs
Accutest	1/6/2014	BASE-TB-01062014	JB57131-4	Aqueous	VOCs
Accutest	1/9/2014	BASE-ISCOMW1-01092014, MS/MSD	JB57365-1	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/9/2014	BASE-ISCOMW1-01092014, MS/MSD	JB57365-1F	Groundwater	Dissolved Metals
Accutest	1/9/2014	BASE-PZ1S-01092014	JB57365-2	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/9/2014	BASE-PZ1S-01092014	JB57365-2F	Groundwater	Dissolved Metals
Accutest	1/9/2014	BASE-ISCOMW5-01092014	JB57365-3	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/9/2014	BASE-ISCOMW5-01092014	JB57365-3F	Groundwater	Dissolved Metals
Accutest	1/9/2014	BASE-ISCOMW6-01092014	JB57365-4	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/9/2014	BASE-ISCOMW6-01092014	JB57365-4F	Groundwater	Dissolved Metals
Accutest	1/9/2014	BASE-ISCOMW8-01092014	JB57365-5	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/9/2014	BASE-ISCOMW8-01092014	JB57365-5F	Groundwater	Dissolved Metals
Accutest	1/9/2014	BASE-IW4S-01092014	JB57365-6	Groundwater	VOCs
Accutest	1/10/2014	BASE-ISCOMW2-01102014	JB57365-7	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/10/2014	BASE-ISCOMW2-01102014	JB57365-7F	Groundwater	Dissolved Metals
Accutest	1/9/2014	BASE-IW1BT2-01092014	JB57365-8	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/9/2014	BASE-IW1BT2-01092014	JB57365-8F	Groundwater	Dissolved Metals
Accutest	1/9/2014	BASE-01092014-EB	JB57365-9	Aqueous	VOCs, Metals, Sulfate, TDS
Accutest	1/9/2014	BASE-01092014-EB	JB57365-9F	Aqueous	Dissolved Metals
Accutest	1/9/2014	BASE-ISCOMW3-01092014	JB57365-10	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/9/2014	BASE-ISCOMW3-01092014	JB57365-10F	Groundwater	Dissolved Metals
Accutest	1/9/2014	BASE-01092014-DUP[BASE-ISCOMW3-01092014]	JB57365-11	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/9/2014	BASE-01092014-DUP[BASE-ISCOMW3-01092014]	JB57365-11F	Groundwater	Dissolved Metals
Accutest	1/10/2014	BASE-IW1DR1-01102014	JB57365-12	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/10/2014	BASE-IW1DR1-01102014	JB57365-12F	Groundwater	Dissolved Metals
Accutest	1/10/2014	BASE-MW10S-01102014	JB57365-13	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/10/2014	BASE-MW10S-01102014	JB57365-13F	Groundwater	Dissolved Metals
Accutest	1/10/2014	BASE-MW14SD-01102014	JB57365-14	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/10/2014	BASE-MW14SD-01102014	JB57365-14F	Groundwater	Dissolved Metals
Accutest	1/10/2014	BASE-MW14S-01102014	JB57365-15	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/10/2014	BASE-MW14S-01102014	JB57365-15F	Groundwater	Dissolved Metals
Accutest	1/10/2014	BASE-MW11I-01102014	JB57365-16	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/10/2014	BASE-MW11I-01102014	JB57365-16F	Groundwater	Dissolved Metals
Accutest	1/10/2014	BASE-MW5I-01102014	JB57365-17	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/10/2014	BASE-MW5I-01102014	JB57365-17F	Groundwater	Dissolved Metals
Accutest	1/10/2014	BASE-ISCOMW7-01102014	JB57365-18	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/10/2014	BASE-ISCOMW7-01102014	JB57365-18F	Groundwater	Dissolved Metals
Accutest	1/10/2014	BASE-01102014-EB	JB57365-19	Aqueous	VOCs, Metals, Sulfate, TDS
Accutest	1/10/2014	BASE-01102014-EB	JB57365-19F	Aqueous	Dissolved Metals
Accutest	1/10/2014	BASE-ISCOMW9-01102014	JB57365-20	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	1/10/2014	BASE-ISCOMW9-01102014	JB57365-20F	Groundwater	Dissolved Metals
Accutest	1/10/2014	BASE-01102014-TB	JB57365-21	Aqueous	VOCs
Accutest	1/13/2014	BASE-MW24-01132014	JB57510-1	Groundwater	VOCs
Accutest	1/13/2014	BASE-MW6S-01132014	JB57510-2	Groundwater	VOCs
Accutest	1/13/2014	BASE-MW9I-01132014, MS/MSD	JB57510-3	Groundwater	VOCs
Accutest	1/13/2014	BASE-01132014-DUP[BASE-MW24-01132014]	JB57510-4	Groundwater	VOCs
Accutest	1/13/2014	BASE-WCC1M-01132014	JB57510-5	Groundwater	VOCs
Accutest	1/13/2014	BASE-WCC1S-01132014	JB57510-6	Groundwater	VOCs
Accutest	1/13/2014	BASE-MW19S-01132014	JB57510-7	Groundwater	VOCs
Accutest	1/13/2014	BASE-MW28-01132014	JB57510-8	Groundwater	VOCs
Accutest	1/13/2014	BASE-MW15D-01132014	JB57510-9	Groundwater	VOCs
Accutest	1/13/2014	BASE-WCC3M-01132014	JB57510-10	Groundwater	VOCs
Accutest	1/13/2014	BASE-01132014-EB	JB57510-11	Aqueous	VOCs
Accutest	1/13/2014	BASE-01132014-TB	JB57510-12	Aqueous	VOCs
Accutest	2/3/2014	BASE-ISCOMW4-02032014	JB59106-1	Groundwater	VOCs, Metals, Sulfate, TDS
Accutest	2/3/2014	BASE-ISCOMW4-02032014	JB59106-1F	Groundwater	Dissolved Metals
Accutest	2/3/2014	BASE-02032014-EB	JB59106-2	Aqueous	VOCs, Metals, Sulfate, TDS
Accutest	2/3/2014	BASE-02032014-EB	JB59106-2F	Aqueous	Dissolved Metals
Accutest	2/3/2014	BASE-EW3-02032014	JB59106-3	Groundwater	VOCs
Accutest	2/3/2014	BASE-02032014-TB	JB59106-4	Aqueous	VOCs

Note:

Accutest indicates Accutest Laboratories of Dayton, New Jersey.

VOCs indicates volatile organic compounds.

TDS indicates total dissolved solids.

MS/MSD indicates matrix spike/matrix spike duplicate.

DUP indicates field duplicate.

The sample identification utilized for field duplicate is shown in brackets.

TB indicates trip blank.

FB indicates field blank.

Table 3 - O'Brien & Gere data validation approach using NJDEP data validation guidelines	
General Validation Approach	Data evaluation is based on QA/QC criteria established the methods utilized by the laboratory and quality plans developed for the project.
	The NJDEP data validation guidance applies to data generated using USEPA CLP methods. This project was not analyzed using CLP methods. Therefore, data affected by excursions from criteria presented in the methods and quality plan are qualified using professional judgment with some consideration of the general guidance provided in the following documents: • New Jersey Department of Environmental Protection (NJDEP). 2001a. Standard Operating Procedures for the Quality Assurance Data Validation of Analytical Deliverables – TCL- Organics (based on the USEPA SOW OLM04.2 with Revisions), SOP No. 5.A.13. Trenton, New Jersey; and • NJDEP. 2001b. Standard Operating Procedure (SOP) for Analytical Data Validation of Target Analyte List (TAL) – Inorganics, SOP No. 5.A.2. Trenton, New Jersey.
	The following qualifiers are applied to data: ""U" Indicates that the analyte was analyzed for, but was not detected. "J" Indicates that the result should be considered to be an estimated value. This qualifier is used when the data validation process identifies a deficiency in the data generation process. "UJ" Indicates that the sample-specific reporting limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process. "R" Indicates that the reporting limit or sample result has been determined to be unusable due to a major deficiency in the data generation process. The data should not be used for any qualitative or quantitative purposes. In addition, in accordance with the NJDEP guidance, the following single word descriptors were added to analyte results if the reported analyte required a quality assurance action. • Qualify (Q) - used when the results of a given analyte in a sample do not meet all QA/QC criteria but the deficiencies are not severe enough to warrant data rejection. • Negate (N) - used when the presence of a given analyte in a sample can be attributed to the laboratory/field introduced contamination. • Reject (R) - used when the results of a given analyte in a sample do not meet all QA/QC criteria so that the qualitative presence and/or quantitation of that analyte in the sample cannot be determined with any degree of confidence. Footnotes are applied to each qualifier to define the type of excursion that affected the sample result, resulting in the qualification of the data, as listed on this table.
	Data are evaluated using the QA/QC criteria (including holding times and calibration) established in the applicable Quality Assurance Project Plan (QAPP), analytical methods and laboratory established control limits. Since the NJDEP validation guidelines apply to data generated using CLP methods, the application of these validation guidelines is modified to reflect method requirements, where applicable, since non-CLP methods are used in the analysis of samples.
	A full QA/QC review is performed for 10 percent of the aqueous and solid samples, including a review of data summary forms and raw analytical data that were provided by the laboratory in the data package documentation. Partial review is performed for the remaining environmental samples submitted for data validation for this sampling event. Partial review consists of a review of the data summary forms. During the partial validation, only summary QA/QC forms are evaluated. The forms and the information contained on the forms are not evaluated for accuracy or completeness during the partial validation process.
	The validation approach taken by O'Brien & Gere is a conservative one; qualifiers are applied to sample data to indicate both major and minor excursions. In this way, data associated with any type of excursion are identified to the data user. Major excursions will result in data being rejected, indicating that the data are considered unusable for either quantitative or qualitative purposes. Minor excursions will result in sample data being qualified as approximate that are otherwise usable for quantitative or qualitative purposes.
	Excursions are subdivided into excursions that are within the laboratory's control and those that are out of the laboratory's control. Excursions involving laboratory control sample recovery, calibration response, method blank excursions, low or high spike recovery due to inaccurate spiking solutions or poor instrument response, holding times, interpretation errors, and quantitation errors are within the control of the laboratory. Excursions resulting from matrix spike recovery, serial dilution recovery, surrogate, and internal standard performance due to matrix interference from the matrix of the samples are examples of those excursions that are not within the laboratory's control if the laboratory has followed proper method control procedures, including performing appropriate cleanup techniques.
Parameter Type	**Approach in Applying Data Validation Qualifiers**
Sample collection information- Cooler Temperature	Results for samples submitted for organic and inorganic analyses impacted by cooler temperatures of greater than 10°C are noted in the report.* Qualifiers are not applied to data.
Sample collection information- Percent Solids	Results for samples submitted for organic and inorganic analyses that are impacted by percent solids of 50 percent are noted in the report.* Qualifiers are not applied to data.
VOCs by USEPA Method 8260B Calibration Evaluation	VOC target analytes are evaluated using the criteria of 15%RSD or correlation coefficient criteria of 0.990 for initial calibration curves. Calibration verifications are evaluated using a criterion of 20%D for all target compounds. Initial calibrations and calibration verifications were also evaluated using the criterion of a RF value of greater than or equal to a value of 0.01 for ketones and 0.05 for the remaining target analytes. If analyzed, the second-source standard (ICV) is evaluated using laboratory control limits or 70% to 130% recovery.

Table 3 - O'Brien & Gere data validation approach using NJDEP data validation guidelines	
VOCs by USEPA Method 524.2 Calibration Evaluation	VOC target analytes are evaluated using the criteria of 20%RSD or correlation coefficient criteria of 0.990 for initial calibration curves. Calibration verifications are evaluated using a criterion of 30%D for all target compounds. Initial calibrations and calibration verifications were also evaluated using the criterion of a RF value of greater than or equal to a value of 0.05. If analyzed, the second-source standard (ICV) is evaluated using laboratory control limits or 70% to 130% recovery.
VOCs by USEPA Method 624 Calibration Evaluation	VOC target analytes are evaluated using the criteria of 35 percent relative standard deviation (%RSD) or correlation coefficient criteria of 0.990 for initial calibration curves. Calibration verifications are evaluated using criteria presented in Table 5 of USEPA Method 624 and 50 percent difference (%D) for the remaining target analytes not listed in the method. Initial calibrations and calibration verifications are also evaluated using a response factor (RF) criteria of greater than or equal to 0.05 for target analytes. A minimum of a RF pf 0.01 is required for ketones and poor-purging analytes. If analyzed, the second-source standard or low standard is evaluated using a 30% recovery or the laboratory control limits.
SVOCs by USEPA Method 8270C Calibration Evaluation	SVOC target analytes are evaluated using the criteria of 15 %RSD or correlation coefficient criteria of 0.990 for initial calibration curves. Calibration verifications are evaluated using a criterion of 20%D for all target compounds. Initial calibrations and calibration verifications were also evaluated using the criterion of a RF value of greater than or equal to a value of 0.05 for the target analytes. If analyzed, the second-source standard (ICV) is evaluated using laboratory control limits or 70% to 130% recovery.
Calibration Actions for VOCs (8260B) and SVOCs (8270C)	Due to any relative standard deviation (RSD) calibration excursions, detected results for analytes in samples associated with the calibration are qualified as approximate (J). Non-detected results associated with RSD excursions may be qualified as approximate (UJ) based on professional judgment. If the RSD calibration excursion is greater than 90, detected results for analytes in samples associated with the calibration are qualified as approximate (J) and non-detected results may be rejected (R), applying professional judgment. Due to any %D calibration verification excursions, detected and non-detected results for analytes in samples associated with the calibration are qualified as approximate (J, UJ). If the %D calibration excursion is greater than 90, detected results for analytes in samples associated with the calibration are qualified as approximate (J) and non-detected results may be rejected (R), applying professional judgment. For response factor excursions, detected results are qualified as approximate (J) and non-detected results are rejected (R). For initial calibration verifications (ICV) excursions, detected and non-detected results for analytes in samples associated with the calibration are qualified as approximate (J, UJ). The response direction and detection of target analytes in associated sample may be considered in applying qualifiers.
PCBs by USEPA Method 8082 Calibration Evaluation	PCB target analytes are evaluated using the criteria of 20 %RSD or correlation coefficient of 0.990 for initial calibration curves. Calibration verifications are evaluated using a criterion of 15 %D for target analytes. ICV recoveries are evaluated using laboratory control limits if available or 70 to 130%.
Pesticides by USEPA Method 8081A Calibration Evaluation	Pesticide target analytes are evaluated using the criteria of 20 %RSD or correlation coefficient of 0.990 for initial calibration curves. Calibration verifications are evaluated using a criterion of 20 %D for the target analytes. ICV recoveries are evaluated using laboratory control limits if available or 70 to 130%.
Herbicides by USEPA Method 8151A Calibration Evaluation	Herbicide target analytes are evaluated using the criteria of 20 %RSD or correlation coefficient of 0.990 for initial calibration curves. Calibration verifications are evaluated using a criterion of 20 %D for the target analytes. ICV recoveries are evaluated using laboratory control limits if available or 70 to 130%.
Calibration Actions for PCB, Pesticides and Herbicides GC analyses	Due to any relative standard deviation (RSD) calibration excursions, detected results for analytes in samples associated with the calibration are qualified as approximate (J). Non-detected results associated with RSD excursions may be qualified as approximate (UJ) based on professional judgment. Due to any %D calibration verification excursions, detected and non-detected results for analytes in samples associated with the calibration are qualified as approximate (J, UJ). For initial calibration verifications (ICV) excursions, detected and non-detected results for analytes in samples associated with the calibration are qualified as approximate (J, UJ). The response direction and detection of target analytes in associated sample may be considered in applying qualifiers.
Calibration Data- GC by USEPA Method 8011	Data are evaluated using the criteria of 20%RSD for initial calibrations, or correlation coefficient of 0.990 for calibration curves, and 20%D for the calibration verifications. Results are qualified for primary column calibration excursions. The second-source standard (ICV) is evaluated using laboratory control limits or 70% to 130% recovery.
Organic Multi-results	When two results are reported, due to re-preparation or for dilution analyses, both sets of results are evaluated during the validation process. Based on the evaluation of the associated quality control data, the results reflecting the higher quality data are reported.

Table 3 - O'Brien & Gere data validation approach using NJDEP data validation guidelines	
General Organic Surrogate, MS/MSD, LCS, Duplicate Data	Laboratory established control limits are used to assess duplicate, surrogate, MS/MSD, and LCS data.
	In the case that excursions are identified in more than one quality control sample of the same matrix within one sample delivery group, samples are batched according to sample preparation or analysis date and qualified accordingly.
	For surrogate recoveries are not within laboratory control limits: If two or more surrogate recoveries are outside of laboratory control limits for SVOC analysis, results are rejected (R, 81) unless matrix interferences are confirmed by re-extraction and reanalysis. If one or more surrogate recoveries are not within laboratory control limits for PCB, results are qualified as UJ, J, 81B).
	If LCS percent recoveries are less than laboratory control limits but greater than ten percent, non-detected and detected results are qualified as approximate (UJ, J, 88) to indicate minor excursions.
	If LCS percent recoveries are greater than laboratory control limits, detected results are qualified as approximate (J, 88) to indicate minor excursions.
	If LCS percent recoveries are outside of laboratory control limits and less than ten percent, detected results are qualified as approximate (J, 88) and non-detected results are qualified as rejected (R, 88A) to indicate major excursions.
	If RPDs for MSDs or duplicates are outside of laboratory control limits, detected results are qualified as approximate (J, 89A) to indicate minor excursions.
Organic MS/MSD Data	Qualification of organic data for MS/MSD analyses is performed only when both MS and MSD percent recoveries are outside of laboratory control limits with zero percent recovery.
	Organic data are rejected (R, 87) to indicate major excursions in the case that both MS/MSD recoveries are zero.
Sample dilution Data	Qualification of data is not performed if MS/MSD or surrogate recoveries are outside of laboratory control limits due to sample dilution.
MS/MSD and Field Duplicate Data – Organic Data	Qualification of data associated with MS/MSD or field duplicate excursions is limited to the un-spiked sample or the field duplicate pair, respectively.
Field Duplicate Data	Field duplicate data are evaluated against relative percent difference (RPD) criteria of less than 50 percent for aqueous samples and less than 100 percent for soils when results are greater than five times the QL. When sample results for field duplicate pairs are less than five times the QL, the data are evaluated using control limits of plus or minus two times the QL for soils. If RPDs for field duplicates are outside of laboratory control limits, detected and non-detected results are qualified as approximate (UJ, J, 90) to indicate minor excursions.
Internal Standard - Organic Data	Internal standard recoveries are evaluated using control limits of within 50% of the lower standard area and up to 100% of the upper standard area of the associated calibration verification standard. Sample results are qualified as approximate (UJ, J, 50) if one internal standard does not meet criteria. Detected sample results are qualified as approximate (J, 51) if two or more internal standards do not meet criteria. Non-detected sample results are rejected (R, 51) if two or more internal standards do not meet criteria.
Internal Standard/Surrogate - Organic Data- Drinking Water methods	Internal standard recoveries are evaluated using method control limits. Monitor the integrated areas of the quantitation ions of the internal standards and surrogates in all samples, continuing calibration checks, and blanks. These should remain reasonably constant over time. An abrupt change may indicate a matrix effect or an instrument problem. If a cryogenic interface is utilized, it may indicate an inefficient transfer from the trap to the column. These samples must be reanalyzed or a laboratory fortified duplicate sample analyzed to test for matrix effect. A drift of more than 50% in any area is indicative of a loss in sensitivity, and the problem must be found and corrected. CCV- Determine that the absolute areas of the quantitation ions of the internal standard and surrogates have not decreased by more than 30% from the areas measured in the most recent continuing calibration check, or by more than 50% from the areas measured during initial calibration. If these areas have decreased by more than these amounts, adjustments must be made to restore system sensitivity.
Evaluation of Internal Standards for samples (VOCs for USEPA Method 524.2)	Internal standard areas of samples are evaluated using the validation control limit of 70 to 130 percent recovery when compared to the calibration verification associated with the samples. Sample results are qualified as approximate (UJ, J, 50) if one internal standard does not meet criteria. Detected sample results are qualified as approximate (J, 51) if two or more internal standards do not meet criteria. Non-detected sample results are rejected (R, 51) if two or more internal standards do not meet criteria.

Table 3 - O'Brien & Gere data validation approach using NJDEP data validation guidelines	
Evaluation of CCVs (VOCs for USEPA Method 524.2)	Internal standard areas of CCVs are evaluated using the validation control limit of 50 to 100 percent recovery when compared to the initial calibration. Sample results are qualified as approximate (UJ, J, 50) if one internal standard does not meet criteria. Detected sample results are qualified as approximate (J, 51) if two or more internal standards do not meet criteria. Non-detected sample results are rejected (R, 51) if two or more internal standards do not meet criteria.
Evaluation of Initial (ICV) and Calibration Verification (CCV) for Metals by 6010B/6020A, Mercury by 7470A/7471B, and Total Cyanide by 9012B	Metals are evaluated using the criteria for ICV and CCV of 90% to 110% of the expected value. Mercury is evaluated using the criteria for ICV of 90% to 110% of the expected value and 80% to 120% of the expected value for the CCV. Total Cyanide is evaluated using the criteria for ICV and CCV of 85% to 115% of the expected value. For analyses utilizing a calibration curve, the correlation coefficient for the first or second order curve must be≥ 0.995.
Performance Evaluation for ICP-MS by 6020A	ICP-MS data is evaluated using resolution of mass calibration of within 0.1 µ and the %RSD of less than 15%. Resolution must be less than 0.9amu of full width at 10% of peak height.
Evaluation of Initial (ICV) and Calibration Verification (CCV) for Metals by EPA method 200.7/200.8 and Anions by Method 300.0	Metals are evaluated using the criteria for ICV and CCV of 95% to 105% for EPA 200.7 and 90% to 110% for EPA 200.8 and 300.0. For analyses utilizing a calibration curve, the correlation coefficient for the first or second order curve must be ≥ 0.995.
Evaluation of Internal Standards for ICP-MS by 200.8	Internal standard recoveries are evaluated using control limits of percent relative intensity (%RI) from 60% to 125% of the response in the calibration blank.
Evaluation of Internal Standards for ICP-MS by 6020A	Internal standard recoveries are evaluated using control limits of percent relative intensity (%RI) from 60% to 125% of the response in the calibration blank. The intensity of any internal standard must be >30% or <120% of the intensity of the internal standard in the initial calibration standard. The intensity of the internal standard of the CCB and CCV must agree within ±20% of the intensity of the internal standard in the ICV.
Metal and Inorganic MS/MSD, Laboratory/Field Duplicate, Serial Dilution	Qualification of sample results associated with MS/MSD, laboratory duplicate and field duplicate excursions is performed on samples for the same matrix, within the same preparation batch, within the same SDG group.

Validation Footnotes

Footnote	**Type of Excursion**
1	The value reported is less than or equal to three (3) times the value in the method blank/preparation blank. It is the policy of NJDEP-DPFSR to negate the reported value due to probable foreign contamination unrelated to the actual sample. The end-user, however, is alerted that a reportable quantity of the analyte/compound was detected. The B qualifier must be reported.
2	The value reported is greater than three (3) times but less than or equal to 10 times the value in the method blank/preparation blank and is considered "real". However, the reported value must be quantitatively qualified "J" due to the method blank contamination. The "B" qualifier alerts the end-user to the presence of this analyte/compound in the method blank.
3	The value reported is less than or equal to three (3) times the value in the trip/field blank. It is the policy of NJDEP-DPFSR to negate the reported value as due to probable foreign contamination unrelated to the actual sample. The end-user, however, is alerted that a reportable quantity of the analyte/compound was detected.
4	The value reported is greater than three (3) times the value in the trip/field blank but less than or equal to 10 times the value in the blank and is considered "real". However, the reported value must be quantitatively qualified "J" due to trip/field blank contamination.
4A	The result was qualified due to negative drift.
4B	The result was qualified as "U" due to blank contamination.
5	The concentration reported by the laboratory is incorrectly calculated.
6	The laboratory failed to report the presence of the analyte in the sample.
7	The reported metal value was qualified because the Initial/Continuing Calibration Standard was not within the recovery range.
8	No CRDL Standard for AA or ICP analysis was performed. Therefore, the analyte affected was rejected.
9	The reported concentration was quantitatively qualified because the concentration was below the CRDL but greater than the MDL. The concentration is considered estimated since the value obtained is at the low end of the instrument performance.
9A	IDLs are greater than the CRDLs.

Table 3 - O'Brien & Gere data validation approach using NJDEP data validation guidelines	
10	The reported metal value was qualified because the ICP Interference Check Sample was outside the recovery range (80-120 percent).
11	The non-detect metal value was qualified "UJ" because the ICP Interference Check Sample was within the range of 50 and 79%; hence a possibility of false negatives exists.
12	This non-detected metal analyte had Laboratory Control Sample recovery that fell within the range of 70-79%. The end-user should be aware of the possibility of false negatives; therefore, this analyte is flagged as estimated (UJ).
13	The reported metal value was qualified because the Laboratory Control Sample recovery fell within the range of 70-79 %. The end-user should be aware of results that may be biased low.
14	The reported metal value was qualified because the Laboratory Control Sample recovery was greater than 120% but less than or equal to 130%. The end-user should be aware of results that may be biased high.
15	The metal analyte is rejected because the Laboratory Control Sample recovery was less than 70% or greater than 130%.
16	In the Duplicate Sample Analysis for metals, the analyte fell outside the control limits of +20 percent or + CRDL. Therefore, result for the metal was qualified.
17	This analyte was rejected because the laboratory performed the Duplicate Analysis on a field blank.
18	The reported metal value was qualified because the spike recovery was greater than 125 percent but less than or equal to 200%.
18A	The reported metal was qualified because both the spike recovery and matrix spike duplicate recovery were outside of the validation control limits.
19	The reported metal value was qualified because the spike recovery was between 25 and 74 percent.
20	The reported metal value was qualified because the spike recovery was less than 25 percent. The reported value actually indicated the minimum concentration at which the metal was present.
21	The non-detected metal value was qualified (UJ) because the spike recovery was between 25 and 74 percent. The possibility of a false negative exists.
22	The non-detected metal value was rejected because the spike recovery was less than 25 percent.
23	The reported metal value was rejected because the laboratory used a field blank for the Sample Spike Analysis.
24	There was no Post-Digestion Spike Sample Recovery analysis performed. Therefore, the analyte was rejected.
25	The reported metal value was qualified because the Serial Dilution was not within ten percent of sample concentration.
26	The reported metal value was rejected because the laboratory used a field blank for the Serial Dilution analysis or the post-digestion spike.
27	This metal analyte is rejected because the preparation blank concentration of this analyte is greater than the CRDL and the reported sample concentration is less than ten (10) times the preparation blank concentration.
28	The laboratory incorrectly transcribed the raw data onto the Inorganic Analysis Data Sheet form or there are data package issues.
28A	Verification of instrument parameters was performed outside of the required frequency.
28B	A percent solids issue was detected.
29	The reported metal analyte was rejected because the CRDL standard % Recovery fell less than 30% or was greater than 175% , or another severe CRDL deficiency was detected.
30	The non-detected metal value was rejected because the post-digestion spike recovery was less than 25 percent.
30A	The metal value was qualified since the post-digestion spike recovery was exceeded.
31	The reported metal analyte was rejected because the associated Continuing Calibration Blank result was greater than the CRDL.
32	The reported metal analyte was rejected because this sample is not associated with a Laboratory Control Sample or ICB or CCB.
33	The laboratory made a transcription error.
33A	A methods comparison issue was detected.
34	The laboratory used an incorrectly associated Preparation Blank.
35	This analyte is rejected because the laboratory exceeded the holding time for analysis or extraction.
35A	Result was qualified due to a holding time excursion.
36	This metal value was qualified because the CRDL standard was not within the recovery range.
37	The reported concentration is quantitatively qualified due to calibration deficiencies.
38	The reported concentration is quantitatively qualified due to surrogate recovery outliers.
39	The reported concentration is quantitative qualified because the concentration is below the RL.
40	The sample holding time to re-extraction and/or reanalysis was exceeded. All positive results including the tentatively identified compounds are highly qualified.
41	The mass spectral identification has not been confirmed and the identification of this compound has been rejected. This compound should now be considered an unknown and the reported concentration is considered an estimated value.
42	The percent Difference of the calculated values on both columns is greater than 100% and less than 999.9 %. This value is significantly greater than the 25 % limits established by the USEPA-Contract Laboratory Program. The extreme variation between the values from the two columns is apparently due to instrumentation problems and/or matrix interference. Therefore, the reported concentrations cannot be verified and only a tentative identification of the Aroclor or pesticide can be determined.
42A	The percent difference from both columns was greater than 25%.
42B	The percent difference from both columns was greater than 40%.

Table 3 - O'Brien & Gere data validation approach using NJDEP data validation guidelines	
42C	The percent difference from both columns was greater than 70%.
42D	The percent difference from both columns was greater than 100% without evidence of matrix interferences being present. The results are rejected (R).
42E	Results were reported at a concentration that was less than the PQL with a %D greater than 50 percent. The PQL is reported and qualified as non-detected (U).
43	The peak retention times of the Aroclors or pesticides detected in the samples are outside of the retention time window established in the initial calibration. The identification of the Aroclors or pesticides cannot be verified due to the retention time shift outside of the windows. Retention time shifts are evident in all of the continuing calibration standards and the Performance Evaluation Mixtures, therefore the usability of the data is questionable.
44	The laboratory didn't provide the mass spectral proof for the analyte although the quantitation report indicates the presence of the analyte. The presence of this analyte in the sample is considered tentative.
45	The non target compound is qualified "J" and considered an estimated value because relative response factors are not determined for non-target compounds.
46	The laboratory's call on the non target compound did not match the mass spectra of the compound at the approximate scan number in the blank. The laboratory call is incorrect.
47	The laboratory failed to report this analyte on the Organic Analysis Data Sheet (OADS) Form even though the TIC, quantitation report and library search indicates a hit for the analyte.
48	The laboratory reported this analyte in the QADS form. However, this analyte was negated in the quantitation report. QA reviewer agrees the mass spectrum is not a good match and therefore, negates the presence of this analyte in the sample.
49	No library search was submitted for this unknown.
49A	Results were rejected since correct internal standard was not used.
50	One internal standard area in the sample did not meet the QC criteria. Therefore, all compound results using this internal standard for quantitation are quantitatively estimated. (UJ, J)
51 (See 84)	Two or more internal standard areas in the sample did not meet the QC criteria with recoveries of greater than 25%. The detected results for the entire fraction for that sample are qualified as approximate (J). The non-detected results are rejected (R).
52	The RIC in the raw data indicates a non-target(s) is present. The lab failed to report and provide library search(s) for the non-target(s).
53	The laboratory did not quantify the pesticides present in the sample. The pesticide was confirmed on a second column. Quantitation of the peaks revealed that the value is above the CRQL.
54	The lab failed to report this analyte although it was found in both columns and is within the retention times of both columns for the analyte.
55	The retention time window for this analyte overlaps with the retention time window of another analyte. The identity is indistinguishable and therefore tentative.
56	The laboratory reported concentration does not agree with QA reviewer's calculated concentration.
57	The compound exceeded the calibration range of the instrument and is indicated with the "E" qualifier.
58	The compound is a suspected Aldol condensation product and is flagged with the "A" qualifier.
59	The laboratory was required to dilute the samples to bring the peaks onto scale.
60	This sample was diluted prior to analysis. The value reported prior to the dilution correction is less than three (3) times the value in the method blank. It is the policy of NJDEP-DPFSR to negate the reported value due to probable foreign laboratory contamination unrelated to the actual sample. The end-user is alerted that a reportable quantity of the analyte was detected.
61	This non-target compound was detected as a target compound in another analytical fraction. Therefore, the presence of this compound as a non-target analyte is negated.
62	This sample was diluted prior to analysis. The value reported prior to the dilution correction is greater than three (3) times the value in the method blank and is considered "real". However, the reported value must be quantitatively qualified "J" due to method blank contamination. The "B" qualifier alerts the end-user to the presence of this analyte in the method blank.
62A	Results are rejected due to a severe blank analysis excursion.
62B	Results are qualified due to a blank analysis excursion.
63	The results are rejected because the initial calibration, continuing calibration or internal standard was not performed using the proper sequence, concentration, matrix, or internal standards.
63A	Results are rejected due to a severe pesticide/Aroclor analysis issue.
63B	Results are negated due to a blank analysis excursion.
63C	Results are qualified due to a pesticide/Aroclor analysis issue.
64	The results are rejected because the D of the single component pesticide and/or surrogate in the PEM(s) is greater than 25%.
64A	Results are rejected due to a major calibration excursion.
65	The results are rejected because of resolution, scaling, or retention time issues.
65A	Results are qualified due to scaling, or calibration issues.
66	The result is rejected due to retention time deficiencies.
67	The result is qualified because the DDT and/or Endrin breakdown was greater than 20%.

Table 3 - O'Brien & Gere data validation approach using NJDEP data validation guidelines	
68	The result is qualified because the combined DDT/Endrin breakdown is greater than 30%.
69	The results are rejected because GPC cleanup was not performed on the sample extract.
70	The results are rejected because florisil cleanup was not performed on the sample extract.
71	The results are rejected due to GPC calibration or analysis deficiencies.
72	The results are rejected because the florisil cartridge check yielded unacceptable percent recoveries or was not performed properly.
73	The sample holding time was exceeded by greater than ten days. The sample results are rejected.
74	The GC/MS Instrument Performance Check Solution (IPCS) failed acceptance criteria or was not performed. The associated sample results are rejected.
74A	The results are qualified due to IPCS time-of-analysis excursions.
75	Three or more analytes in the initial calibration or continuing calibration failed to meet acceptance criteria. The associated sample results are rejected.
76	The results in the fraction are rejected because the response factor in the initial and/or continuing calibration is less than 0.01 or does not meet the project requirement.
77	The results in the fraction are rejected because the %RSD and/or %D is greater than 40% (or in the case of %D, less than - 40%).
78	The positive result is qualified because the RRF of the compound (with no %RSD or %D) is less than 0.01 or does not meet the project requirement.
79	The non-detect result is rejected because the RRF of the compound (with no %RSD or %D) is less than 0.01.
80	Five or more analytes in the initial calibration or continuing calibration failed to meet %RSD or %D and/or RRF acceptance criteria. The associated sample results are rejected.
80A	Results are rejected since the continuing calibration was not performed properly.
81	Sample results for the fraction are rejected because the % recovery of two or more SMCs (or surrogates) failed to meet criteria.
81A	Results are rejected due to severe surrogate analysis excursions.
81B	Results are qualified due to surrogate analysis excursion.
82	Sample results for the fraction are rejected because the %recovery of one or more SMCs (or surrogates) in the associated method blank failed to meet criteria.
83	Sample results for the fraction are rejected because the retention time of one or more internal standards deviated by more than +/-30 seconds from the retention time of the corresponding internal standard in the associated calibration standard.
84	Two or more internal standard areas in the sample did not meet the QC criteria with recoveries of less than 25%. The detected results and non-detected results are rejected (R).
84A	Results are qualified due to sulfur cleanup issue.
84B	Results are qualified due to internal standard failure.
85	Sample results for the fraction are rejected because sulfur was present in the sample and sulfur cleanup was not performed or performed properly.
86	Results are rejected due to failure to submit manual integration technique.
87	Results are rejected or qualified due to zero matrix spike/ matrix spike duplicate recoveries.
88	Results are qualified due to laboratory control sample excursions.
88A	Results are rejected due to laboratory control sample recoveries of less than ten percent.
89	Detected organic results are qualified due to zero matrix spike/matrix spike duplicate recoveries.
89A	Organic results are qualified due to matrix spike/matrix spike duplicate precision excursions.
90	Results are qualified due to field duplicate excursions. (UJ, J)
91	Results are qualified due to calibration excursions.
92	Results are rejected due to significant canister pressure differences.
93	Results are rejected since SIM was utilized.
94	Results are rejected since a separate MDL study was not performed for each instrument.
95	Results are qualified due to analysis excursions.
96	Results are qualified due to a sample collection excursion.
96A	Results are rejected due to a sample collection excursion.
97	Results are qualified due to sample preparation excursion.
98	The reported hexavalent chromium result was qualified because the post verification spike was greater than 115%.
99	The reported hexavalent chromium result was qualified because the post verification spike was less than 85%
100	The non-detected hexavalent chromium result was qualified (UJ) because the post verification spike was less than 85%. The possibility

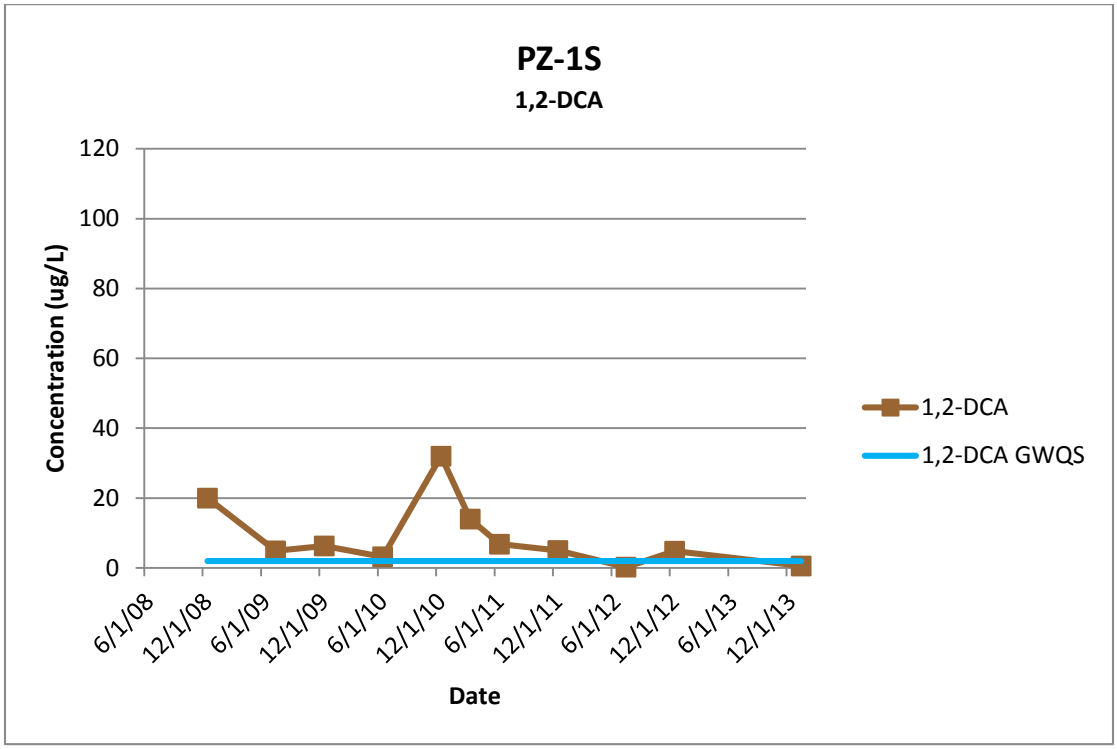
Table 3 - O'Brien & Gere data validation approach using NJDEP data validation guidelines	
	of a false negative exists.
101	The reported hexavalent chromium result was qualified because the pre-digestion spike recovery was less than 75%.
102	The reported hexavalent chromium result was qualified because the pre-digestion spike recovery was greater than 125%.
103	The non-detected hexavalent chromium result was qualified because the pre-digestion spike recovery was less than 75%. The possibility of a false negative exists.
104	Results are qualified due to sample preservation excursion.
* Indicates that NJDEP data validation guidelines do not address this situation; therefore, validation qualifiers are not applied to data.	
Source O'Brien & Gere	

Table 4. Laboratory QA/QC analyses definitions.	
QA/QC Term	**Definition**
Quantitation limit	The level above which numerical results may be obtained with a specified degree of confidence; the minimum concentration of an analyte in a specific matrix that can be identified and quantified above the method detection limit and within specified limits of precision and bias during routine analytical operating conditions.
Method detection limit	The minimum concentration of an analyte that undergoes preparation similar to the environmental samples and can be reported with a stated level of confidence that the analyte concentration is greater than zero.
Instrument detection limit	The lowest concentration of a metal target analyte that, when directly inputted and processed on a specific analytical instrument, produces a signal/response that is statistically distinct from the signal/response arising from equipment "noise" alone.
Gas chromatography/mass spectrometry (GC/MS) instrument performance check	Performed to verify mass resolution, identification, and to some degree, instrument sensitivity. These criteria are not sample specific; conformance is determined using standard materials.
Calibration	Compliance requirements for satisfactory instrument calibration are established to verify that the instrument is capable of producing acceptable quantitative data. Initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of analysis and calibration verifications document satisfactory maintenance and adjustment of the instrument on a day-to-day basis.
Relative Response Factor	A measure of the relative mass spectral response of an analyte compared to its internal standard. Relative Response Factors are determined by analysis of standards and are used in the calculation of concentrations of analytes in samples.
Relative standard deviation	The standard deviation divided by the mean; a unit-free measure of variability.
Correlation coefficient	A measure of the strength of the relationship between two variables.
Relative Percent Difference	Used to compare two values; the relative percent difference is based on the mean of the two values, and is reported as an absolute value, i.e., always expressed as a positive number or zero.
Percent Difference	Used to compare two values; the percent difference indicates both the direction and the magnitude of the comparison, i.e., the percent difference may be either negative, positive, or zero.
Percent Recovery	The act of determining whether or not the methodology measures all of the target analytes contained in a sample.
Calibration blank	Consists of acids and reagent water used to prepare metal samples for analysis. This type of blank is analyzed to evaluate whether contamination is occurring during the preparation and analysis of the sample.
Method blank	A water or soil blank that undergoes the preparation procedures applied to a sample (i.e., extraction, digestion, clean-up). These samples are analyzed to examine whether sample preparation, clean-up, and analysis techniques result in sample contamination.
Field/equipment	Collected and submitted for laboratory analysis, where appropriate. Field/equipment blanks are handled in the same manner as environmental samples. Equipment/field blanks are analyzed to assess contamination introduced during field sampling procedures.
Trip blank	Consist of samples of analyte-free water that have undergone shipment from the sampling site to the laboratory in coolers with the environmental samples submitted for volatile organic compound (VOC) analysis. Trip blanks will be analyzed for VOCs to determine if contamination has taken place during sample handling and/or shipment. Trip blanks will be utilized at a frequency of one each per cooler sent to the laboratory for VOC analysis.
Internal standards performance	Compounds not found in environmental samples which are spiked into samples and quality control samples at the time of sample preparation for organic analyses. Internal standards must meet retention time and recovery criteria specified in the analytical method. Internal standards are used as the basis for quantitation of the target analytes.
Surrogate recovery	Compounds similar in nature to the target analytes but not expected to be detected in the environmental media which are spiked into environmental samples, blanks, and quality control samples prior to sample preparation for organic analyses. Surrogates are used to evaluate analytical efficiency by measuring recovery.

Table 4. Laboratory QA/QC analyses definitions.	
Laboratory control sample Matrix spike blank analyses	Standard solutions that consist of known concentrations of the target analytes spiked into laboratory analyte-free water or sand. They are prepared or purchased from a certified manufacturer from a source independent from the calibration standards to provide an independent verification of the calibration procedure. They are prepared and analyzed following the same procedures employed for environmental sample analysis to assess method accuracy independently of sample matrix effects.
Laboratory duplicate	Two or more representative portions taken from one homogeneous sample by the analyst and analyzed in the same laboratory.
Matrix	The material of which the sample is composed or the substrate containing the analyte of interest, such as drinking water, waste water, air, soil/sediment, biological material.
Matrix Spike (MS)	An aliquot of a matrix (water or soil) fortified (spiked) with known quantities of specific target analytes and subjected to the entire analytical procedure in order to indicate the appropriateness of the method for the matrix by measuring recovery.
Matrix spike duplicate (MSD)	A second aliquot of the same matrix as the matrix spike that is spiked in order to determine the precision of the method.
Retention time	The time a target analyte is retained on a GC column before elution. The identification of a target analyte is dependent on a target compound's retention time falling within the specified retention time window established for that compound.
Relative retention time	The ratio of the retention time of a compound to that of a standard.
Source O'Brien & Gere	

Attachment 4:

Concentration Trend Graphs


PZ-1S
1,2-DCA
Concentration (ug/L)
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100
80
60
40
20
0
6/1/08
12/1/08
6/1/09
12/1/09
6/1/10
12/1/10
6/1/11
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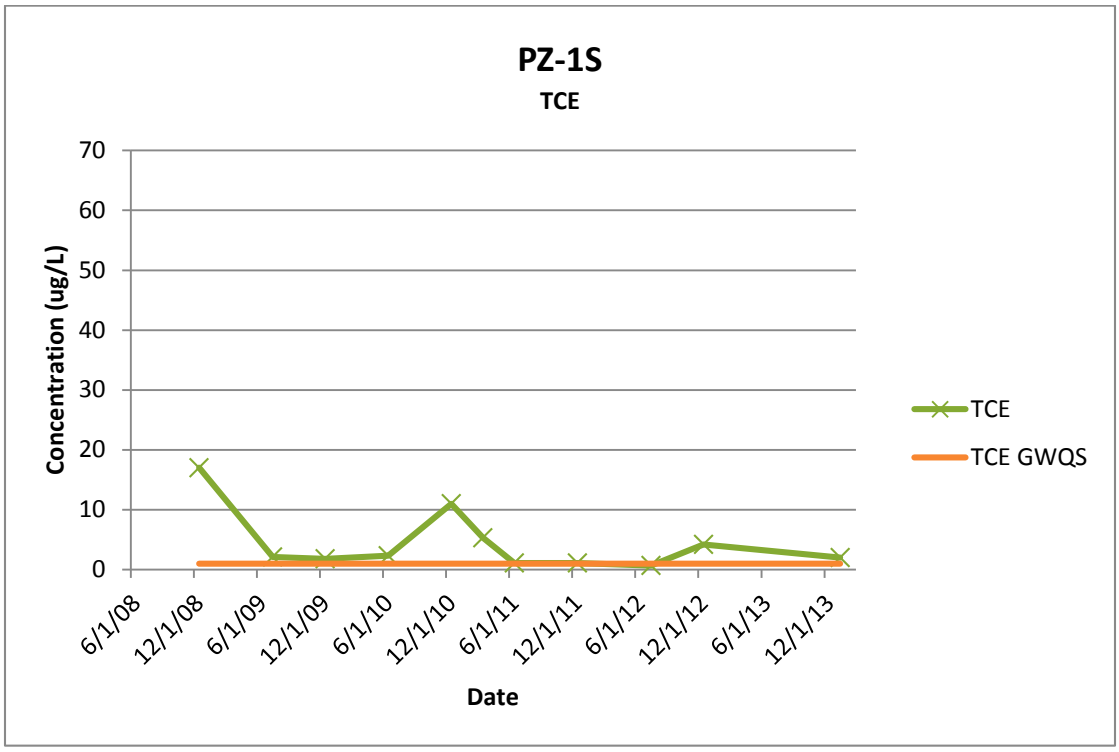
12/1/12
6/1/13
12/1/13
Date
1,2-DCA
1,2-DCA GWQS


PZ-1S
TCE
Concentration (ug/L)
70
60
50
40
30
20
10
0
6/1/08
12/1/08
6/1/09
12/1/09
6/1/10
12/1/10
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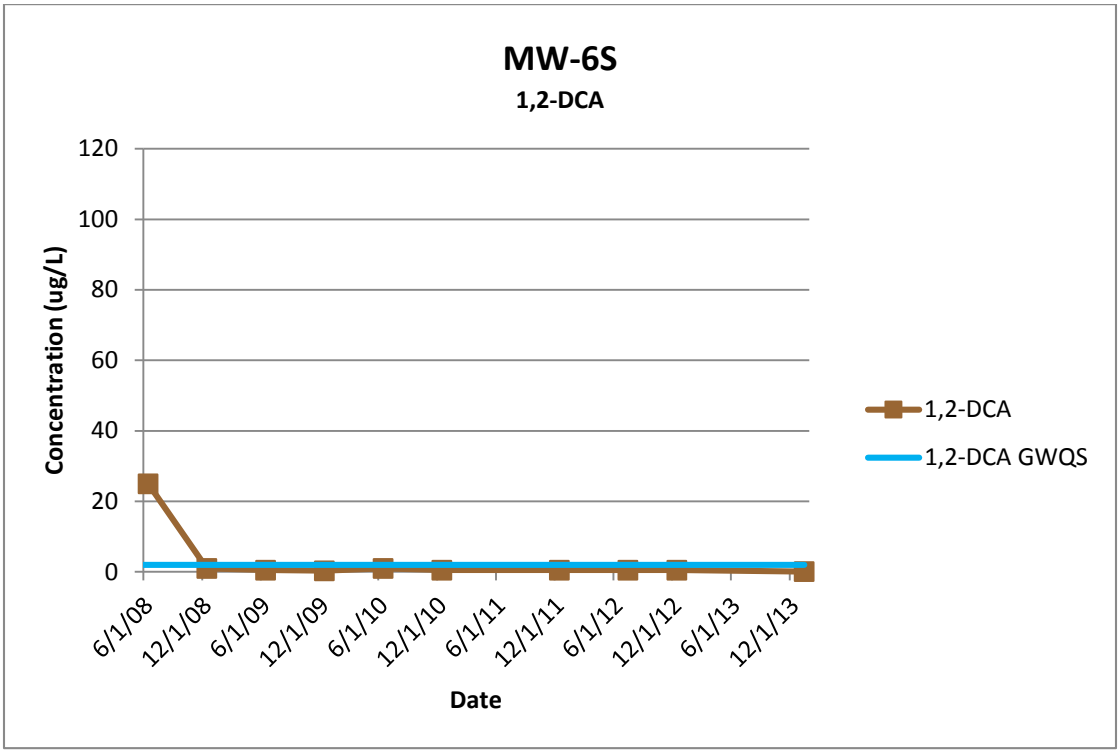
6/1/12
12/1/12
6/1/13
12/1/13
Date
TCE
TCE GWQS


MW-6S
1,2-DCA
120
100
80
60
40
20
0
Concentration (ug/L)
6/1/08
12/1/08
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12/1/09
6/1/10
12/1/10
6/1/11
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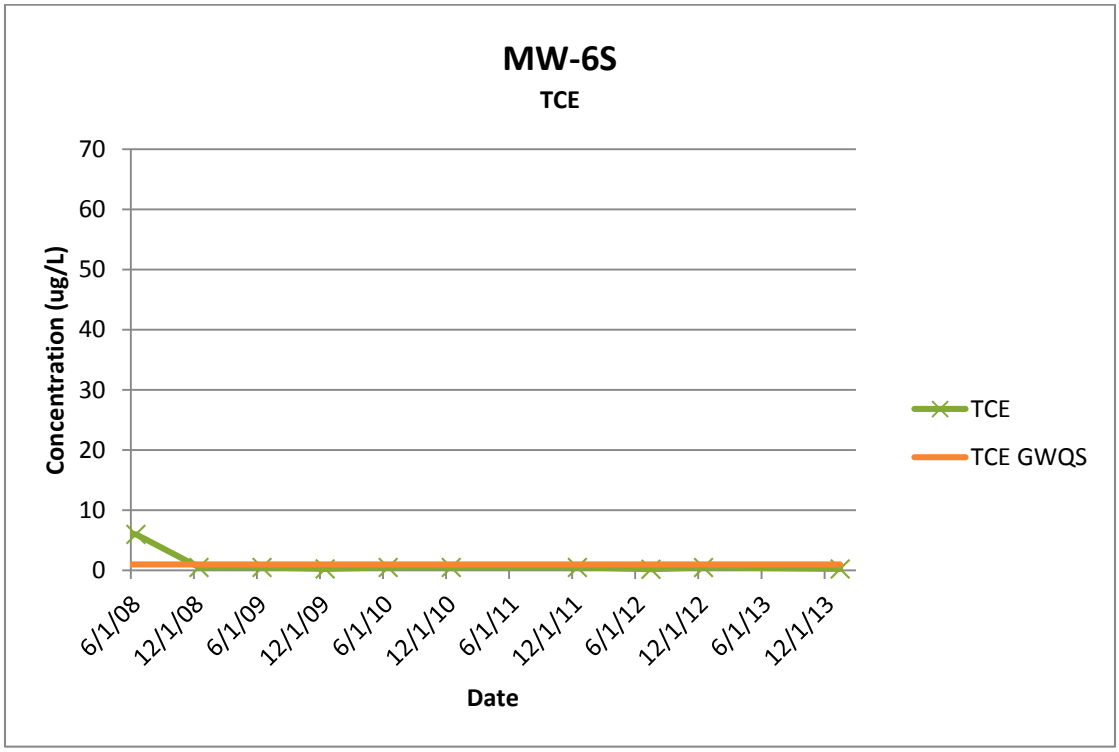
12/1/12
6/1/13
12/1/13
Date
1,2-DCA
1,2-DCA GWQS


MW-6S
TCE
70
60
50
40
30
20
10
0
Concentration (ug/L)
6/1/08
12/1/08
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12/1/09
6/1/10
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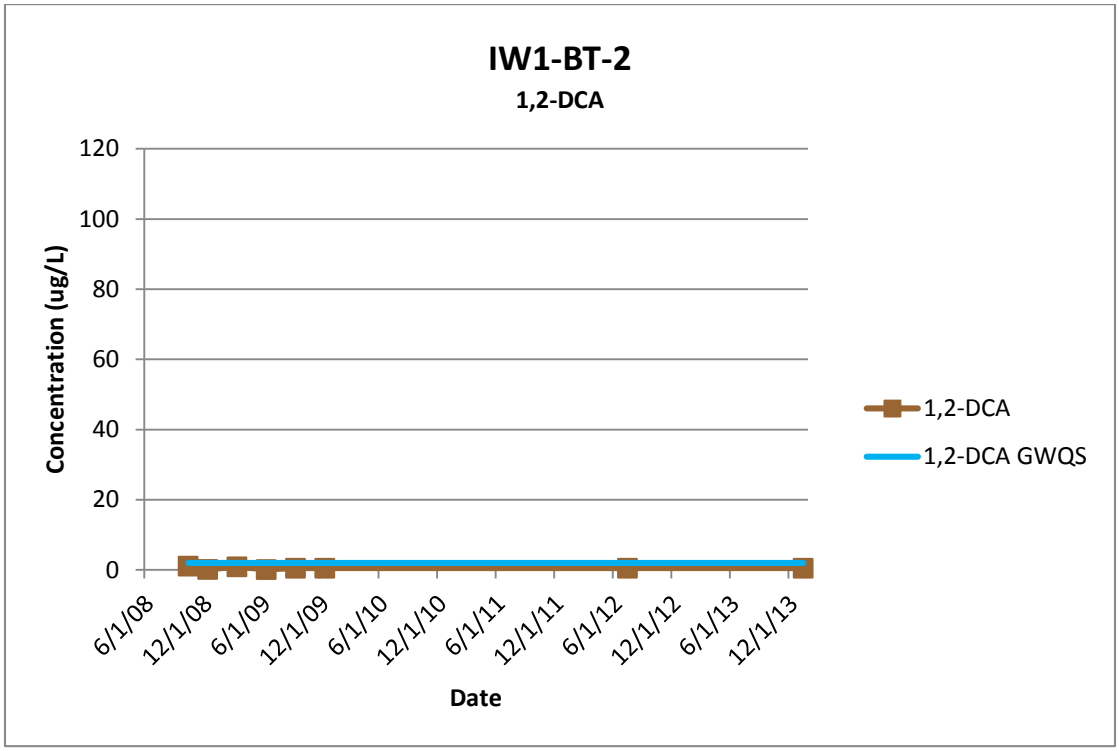
6/1/13
12/1/13
Date
TCE
TCE GWQS


IW1-BT-2
1,2-DCA
Concentration (ug/L)
120
100
80
60
40
20
0
6/1/08
12/1/08
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12/1/09
6/1/10
12/1/10
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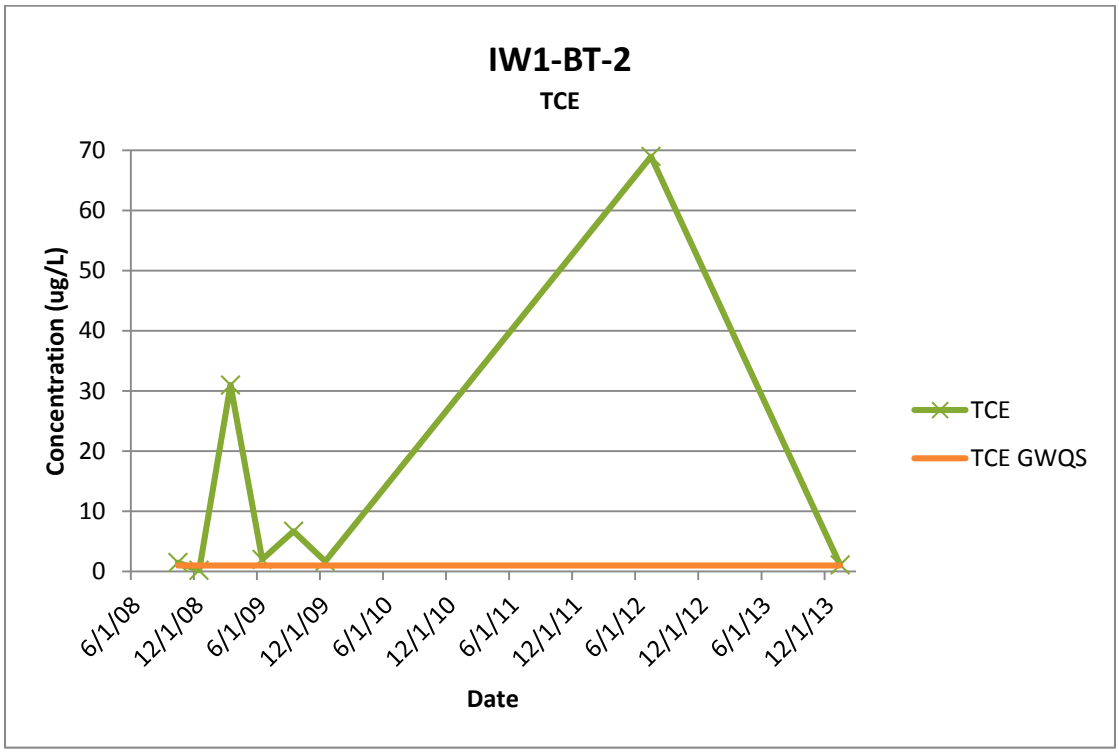
6/1/13
12/1/13
Date
1,2-DCA
1,2-DCA GWQS


IW1-BT-2
TCE
Concentration (ug/L)
70
60
50
40
30
20
10
0
6/1/08
12/1/08
6/1/09
12/1/09
6/1/10
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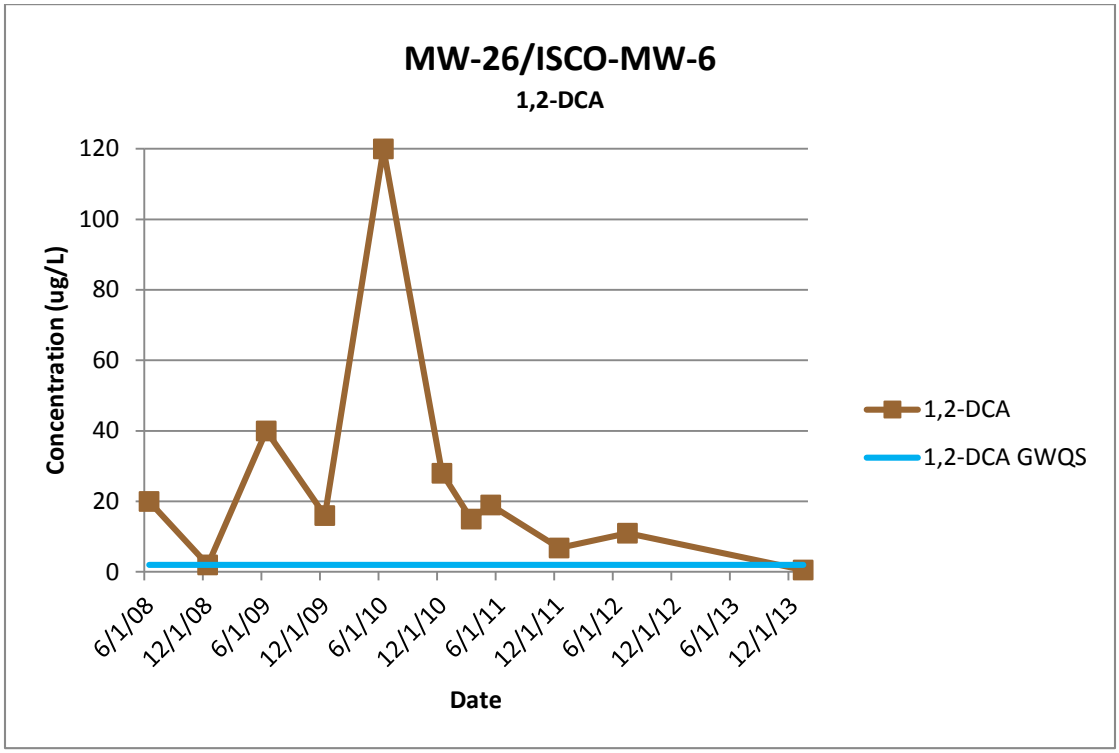
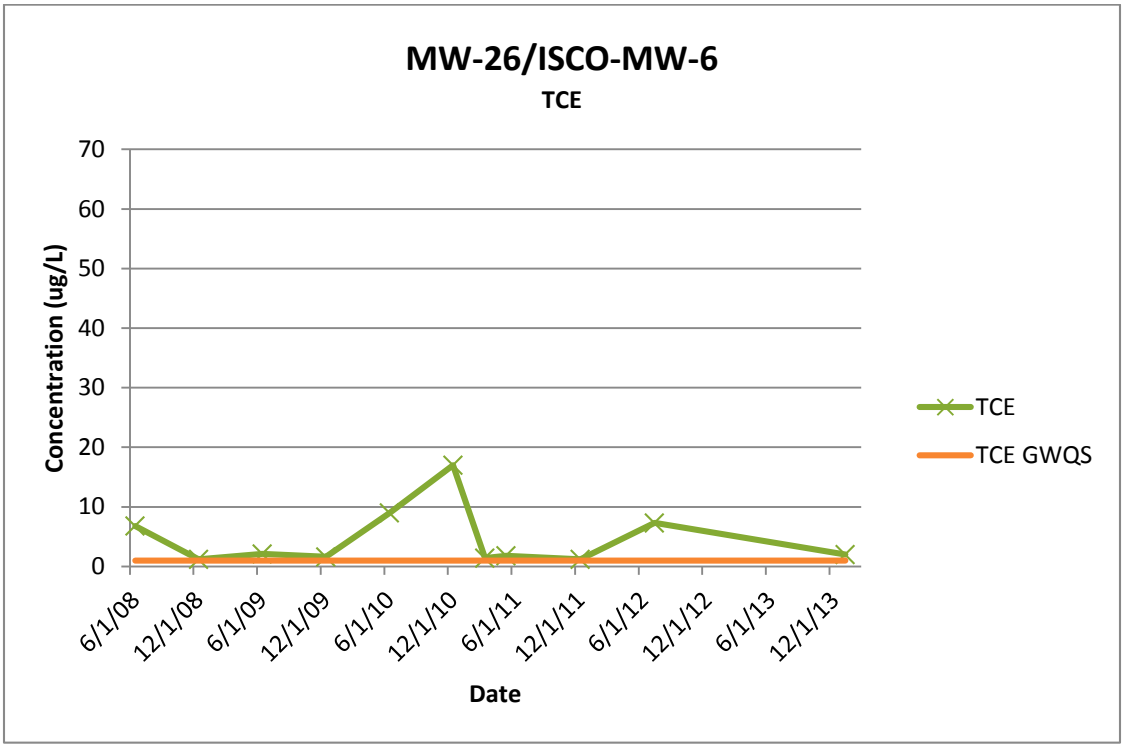
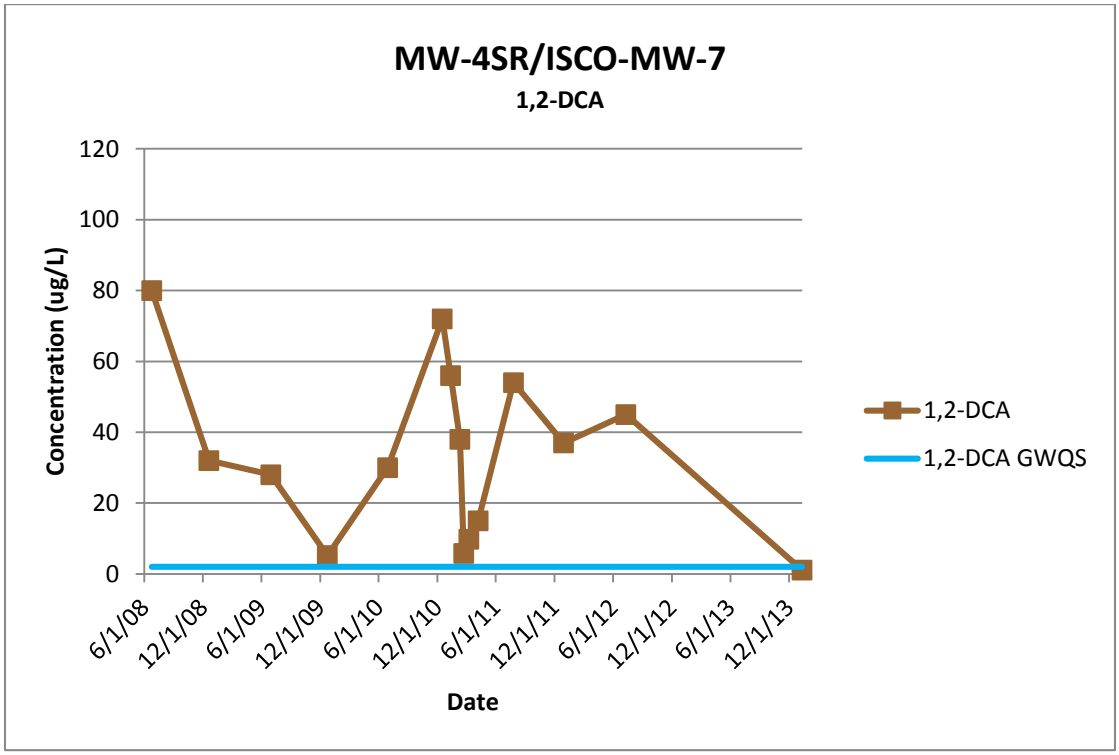
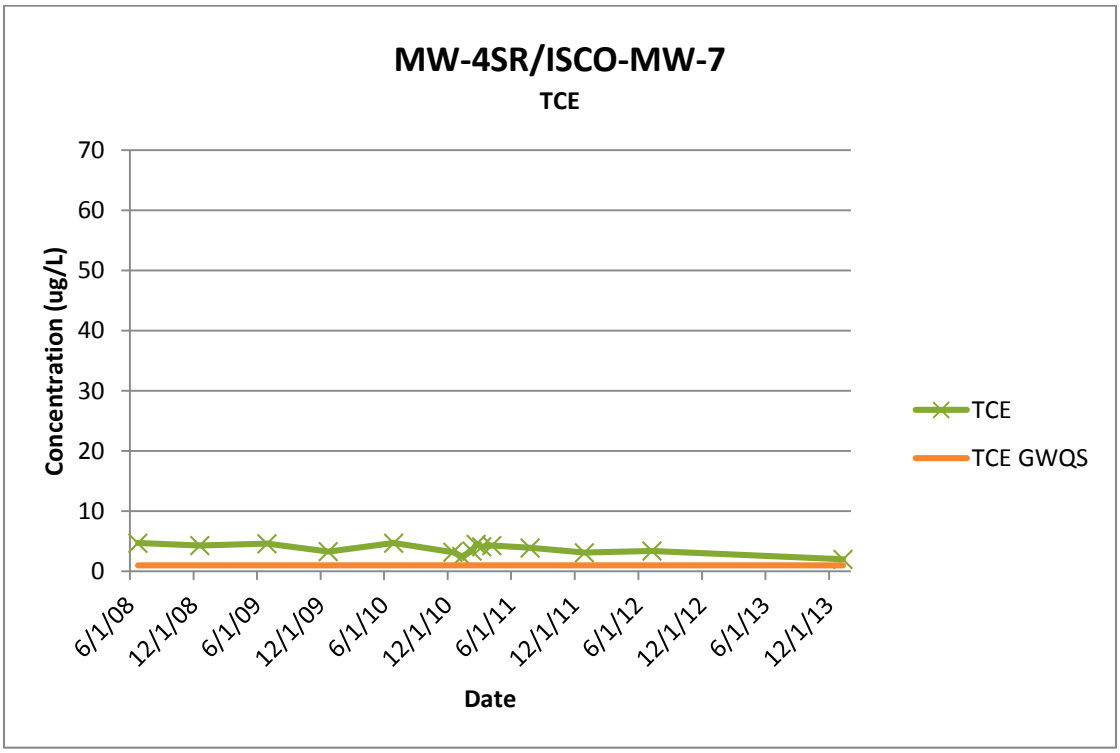
6/1/13
12/1/13
Date
TCE
TCE GWQS





Note: ISCO-MW-6 was installed to replace former well MW-26 on November 27, 2013.





Note: ISCO-MW-7 was installed to replace former well MW-4SR on December 23, 2013.